

Our **Invisible** Bodies

by Jay Alfred



Scientific Evidence for Subtle Bodies

Will you survive the death of your physical body?

There is abundant and growing evidence that human beings possess a series of very high frequency liquid-crystal electromagnetic bodies which are ordinarily invisible and survive the death of our physical bodies. The next world most human beings will find themselves in is not in some far-out galaxy but in a higher frequency sphere on Earth. This book provides detailed descriptions of how bodies in these other worlds operate using electromagnetic forces—consistent with the latest scientific theories in plasma cosmology, plasma crystal technology, supersymmetry, holographic and dark matter theories.

Jay Alfred has a keen interest in conceptual physics and theoretical metaphysics. After years of detailed and disciplined research he has discovered startling correlations and findings never before published.

Non-fiction: Popular Science/Metaphysics/Religion



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JAY ALFRED



Our Invisible Bodies



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Cover photograph: This shows an energy plasma ball in all its glory, with filaments and a nucleus—much like our invisible bodies.



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Other Books By Jay Alfred

Brains and Realities
Between the Moon and Earth

Prologue

Most scientists today accept that 99% of the multiverse is invisible—every current physics textbook says so! Only 1% of the multiverse is visible to us. So the obvious question is: When you look at yourself in the mirror, are you seeing 100% of yourself or just 1%?

Do you possess invisible bodies which you are not aware of and which survive the death of your biomolecular body? How do we go about investigating whether there are such bodies? Why can't you see them? Do established scientific theories support the existence of such invisible bodies? How do these bodies operate and what kind of universes do they inhabit?

Recent advances in Science help us to answer these questions. If parallel universes are taken to mean universes which share the same spacetime as ours, then we have to include the 'super universes' popularised by metaphysicists. They are called 'super' because they contain particles which are much higher in mass, energy and frequency than particles in the 'Standard Model.' The Standard Model, used by physicists currently to describe and classify most of the 'standard' particles in our ordinarily visible universe, is acknowledged to be incomplete by most scientists. Super particles, however, are ordinarily invisible to us and our current scientific instruments—just like dark matter and energy, which Science has had an embarrassing confrontation with in recent years.

According to traditional metaphysics every person has a number of higher-energy bodies composed of super particles which are ordinarily not visible in our universe with our biological eyes. These higher-energy bodies live in super universes. The objective of this book is to validate and extend

this traditional theory, which is based on observations made by a number of experimental metaphysicists across the globe over centuries, and integrate it into a scientific framework so that more systematic work can be done to understand these bodies and their universes. (The term 'metaphysics' used here simply means it is wider in scope than 'physics.' For all practical purposes, it may be considered 'mainstream physics plus the physics of consciousness and perception.')

Conceptually, super universes can be imagined to extend vertically from our universe to higher energy levels. Mirror universes, often met in science fiction books, can be imagined to extend horizontally from any identified universe. Mirror universes, which are approximately at the same energy levels, are contra-factual. This means they contain opposite attributes (such as charge, parity or time reversals). If taken together, at the same energy levels, these contra-factual universes would 'cancel-out' like matter and anti-matter. Super universes, however, are a spectrum of universes which increase in energy levels but do not cancel out when taken together. In fact, they represent different phases in the energy spectrum of the manifested multiverse. Even when they do possess contra-factual attributes they do not cancel-out because super universes are at different energy levels.

Using the latest theories from physics and recent findings in plasma cosmology, plasma crystal and holographic technologies, supersymmetry and theories surrounding dark matter and energy, the traditional 'Many Bodies-Many Universes' theory of metaphysics is validated and vindicated in this updated version of the theory. There is overwhelming evidence that every human being possesses several high energy liquid-crystal bodies composed of magnetic plasma (or 'magma') that are ordinarily invisible to most of us.

This book differs from other accounts of invisible bodies, (such as descriptions of 'astral' and 'etheric' bodies in the general metaphysical literature) and features such as 'chakras' (or vortexes) and meridians (or filaments) described in New Age books. It is grounded in mainstream physics and treats these bodies and the universes they inhabit as phenomenon which can be explained by extending mainstream physics. It is not only descriptive but analytical in nature; citing, wherever relevant, both scientific and metaphysical evidence. It goes in-depth to explain the anatomy and physiology of our invisible (higher energy) bodies. In doing so, numerous exciting correlations have been discovered. Using the model outlined by the author, traditional metaphysical and paranormal theories are recast, using an internally consistent framework based on mainstream physics.

We begin first by taking a look at the scientific discovery that there are large amounts of invisible matter in the universe and enquire as to its nature. We quickly realise that this invisible matter is composed of highly massive and energetic super particles. Then we come to a critical juncture—we establish that these super particles are largely in the form of plasma. This quickly opens up an internally consistent conceptual framework which we can draw from to explain numerous metaphysical and paranormal observations in a logical sequence—from higher energy bodies that accompany a human being's physical bodies (their birth, appearance, operation and eventual dissolution); to Earth-based 'heavens' and 'hells.' All the phenomena flow naturally out of the behavior of plasma. Here we establish a new field that the author describes as 'plasma metaphysics.' No doubt, many will come later who will develop this model in more detail. Heaven, hell and the afterlife will then inevitably become an area for 'enlightened' mainstream scientific research.

Jay Alfred
November 2005



Invisible Matter in the Universe

It's pretty amazing that after all this time; astronomers cannot say what this dark matter is made of. It's one of the greatest mysteries in the history of science... Imagine living in a house and having no clue as to what it is made of.

Tom Siegfried ¹

Gravitational Fields Generated by Invisible Objects?

A group of isolated galaxies, UGC 10214, has a conspicuous bridge of material extending into space towards apparently nothing! Stars at the edge of galaxies were moving at much higher velocities than what the calculations allowed.

In our Solar System, movement of the planets occurs in close conformity with Newton's gravitational laws, according to which the rates of movement around the Sun are slower for planets further out. When this behavior is extrapolated to distant spiral galaxies, it is natural to assume that these, also, would show slower rates of movement in the spiral arms further away from the centres of the galaxies. It was therefore a surprise when measurements by the astronomer Jan Oort in the late 1920s indicated that orbital velocities of stars in the Milky Way do not decrease with increasing distance from our galactic centre. In 1933 Fritz Zwicky noted the same anomaly in galaxies forming

galactic clusters, and suggested that it was due to unidentified 'dark matter' which 'balanced out' the masses at the centres of galaxies.

In 1970 Vera Rubin and W K Ford found the same behavior in the neighbouring Andromeda Nebula, and later sixty other spiral galaxies! This indicates that gravity from these galaxies extended much further out than what was suggested by the edges of the visible galaxies. But what was generating this gravity that was able to confine such fast-moving stars within the galaxy and prevent them from escaping?

At the edge of our Solar System, far beyond Pluto, when we would expect gravity from the visible Sun to peter out, two probes sent out by NASA in 1972 and 1973 experienced strong gravitational forces. What was generating this gravity? According to Marcus Chown this may be due to the presence of 'mirror matter' (one variety of dark or invisible matter) within the Solar System.² Richard Morris observes, 'The universe contains a mysterious kind of matter that telescopes cannot detect, but which nevertheless makes its presence known by exerting a gravitational pull on objects that astronomers can observe.'³

Astronomers have also recently calculated that the mass so far observed in the visible universe fell far short of theoretical predictions—based on the established 'inflationary theory.' Despite better and better measurements, the results from various sources just kept showing that the observed density of matter and energy in the visible universe was simply too low. Only 1% of the predicted mass could be seen or measured! All this evidence made many scientists sit up and conclude, much to their disbelief, that 99% of the matter and energy in the universe was invisible! Equally ironic is that although this fact was known to scientists for some decades, 99% of human beings on this planet currently are unaware of this historical monumental finding and have not reflected on the implications!

The Auras of Galaxies

Science observes that galaxies are surrounded by massive halos of this mysterious, invisible material. A curiously similar observation was made by a Hindu saint, half a century before the above observation. He too saw halos around galaxies—but they were anything but dark or invisible. He says:

The divine dispersion of rays poured from an Eternal Source,
blazing into galaxies, transfigured with ineffable auras.

Paramahansa Yogananda, 1946⁴

The term 'aura' is frequently used in metaphysics to mean a colored radiation emanating from an object. Spherical halos around saints, as

depicted in certain paintings, are considered auras around the head region. What were invisible halos to scientists appeared as a colorful aura around the galaxies to this saint, as he observed them half a century ago. Was he seeing what our scientific instruments could not see—the dark matter counterparts of these galaxies?

This invisible matter was dubbed ‘dark matter’ by scientists, not because it is dark in color (or because there was something sinister or evil about it) but because it does not radiate any light within the electromagnetic spectrum known to Science. It could just as well be called ‘invisible matter.’ Astronomers are still not sure what this dark matter is composed of. They have labored on several theories but none of this matter and energy predicted by these theories have actually been observed or measured by current scientific instruments. There is almost a universal consensus now, however, that massive amounts of dark matter pervade the universe. Powerful scientific theories imply that the greater part of this matter is composed of ‘exotic’ particles not yet seen in the laboratory or even objects that can be described as ‘particles.’ Scientists today estimate that dark matter and energy comprise 90% of the Milky Way (‘our’ galaxy) and up to 99% of the universe as a whole (though estimates can vary between these percentages). Bruce Margon, chairman of the astronomy department at the University of Washington, told the New York Times, ‘It’s a fairly embarrassing situation to admit that we can’t find 90 percent of the universe!’

According to Donald Goldsmith, dark matter remains invisible over the entire electromagnetic spectrum known currently to Science, from the longest wave-length radio waves to the shortest wave-length gamma rays. Though astronomers have opened one spectral window after another with new satellite observatories sent above the absorbing effects of our atmosphere, most of the dark matter consists of matter that cannot be directly detected.⁵

Dark matter, according to mainstream Science, is outside the known electromagnetic spectrum. This observation has been made and communicated numerous times by metaphysicists—when describing what they call ‘subtle matter and energy.’ Some scientists now say it is ‘non-luminous’—which simply means the same thing (i.e. it does not emit electromagnetic waves within the spectrum known to Science currently). Nevertheless, it seems that what appears as non-luminous to Science has been described as a ‘luminous ocean’ by various mystics and metaphysicists—long before Science stumbled onto dark matter.

Could part of the problem in identifying dark matter be that only part of the spectrum of matter is observable by our senses

and sensors? As there are sound waves above and below the frequencies we can hear, and light waves we can't see with our eyes, could it be that matter has properties that make it invisible to us at certain 'frequencies?' This may explain some of the anomalies in the layering of dark matter.

Phil Paulsen Racine, Wisconsin

Further Evidence from Gravitational Lensing

A deep optical image, from the telescope at Kitt Peak, showed the cluster of galaxies—Abell 2218, along with many faint blue galaxies in the distant background which had been distorted into arcs in the images constructed. According to astronomers, these distortions were the result of 'gravitational lensing' caused by a high density of dark matter near the centre of the cluster. Gravity bends light in a similar way that a lens does—in a phenomenon that astronomers call 'gravitational lensing.' In this case, while gravitational lensing was evident, the matter which caused this lensing could not be found! The astronomers were forced to conclude that invisible galaxies were causing the lensing phenomenon. A team of European astronomers noticed similar distortions in light from distant bright galaxies they were imaging. But there was no visible object that could account for the distortions. 'It was a true mass detection but difficult to confirm,' said Peter Schneider of the University of Bonn, a member of the team. In other words, mass was detected but there was nothing there that they could see or image.

Conclusion

The evidence, as a whole, appears to support the existence of invisible matter and energy. The majority of physicists are now inclined to take the view that there are vast amounts of matter that we cannot see or measure (with any scientific instrument that we currently have). Nevertheless, they knew it was there because of the effects on what they could see—unusually fast moving stars, distortions in the light from distant galaxies and matter being drawn towards apparently nothing. Invisible matter seemed to surround billions of galaxies in the universe. There were even stars that appeared to be rotating around invisible companions. David Peat explains that while the dark matter star remains invisible, its attraction will affect the orbit of the ordinarily visible star. The two will form a binary system in which a star in our universe is rotating around an invisible companion.⁶ Stephen Hawking says:

Our galaxy and other galaxies must contain a large amount of 'dark matter' that we cannot see directly, but which we know must be there because of the influence of its gravitational attraction on the orbits of stars in the galaxies. Moreover, most galaxies are found in clusters, and we can similarly infer the presence of yet more dark matter in between the galaxies in these clusters by its effect on the motion of galaxies.⁷

In 1932 Albert Einstein and William de Sitter published a joint paper in which they proposed the Einstein-de Sitter model of the universe. They argued in this paper that there might be large amounts of matter which does not emit light and has not been detected. In 1917 de Sitter also predicted 'redshifts' and was the first to develop a formal cosmological model of an expanding universe—both are now scientific facts. He also predicted that the expansion would last forever. Recent astrophysical evidence confirms this.

In 2000 Robert Minchin and his team at Cardiff University in Wales noticed two apparently isolated hydrogen clouds in a radio telescope survey of the Virgo Cluster of galaxies. Follow-up observations with visible-light telescopes showed that one of these clouds was associated with a faintly glowing galaxy. However, the second cloud had no partner galaxy. According to Minchin, its motion suggests that it's a small part of a massive object weighing as much as a galaxy of 100 billion suns. And yet this object remains invisible. If Minchin and his team are right, they would have found the first member of a population of galaxies that theorists have proposed but observers had never seen.

Hot and Cold Dark Matter

Scientists tell us that there are two types of dark matter—hot dark matter and cold dark matter. Hot dark matter, with its high kinetic energy, escapes the gravitational pull easily—making it difficult to form structures—like trying to build a sand castle while the tide is coming in. Cold dark matter, on the other hand, has less kinetic energy—enabling it to clump and form structures more readily. This provides the structure in the universe.

'Qi,' 'Prana and 'Kundalini'

'Qi' is a general term for 'energy' in Mandarin. 'Prana' and 'Kundalini' have similar meanings in Hindu metaphysics. They represent what the metaphysical literature calls 'subtle energy.' Science has been unable to measure qi, prana or kundalini directly—just as it finds it difficult to measure dark matter or energy. Nevertheless, in certain inconclusive scientific

experiments, they have been measured indirectly.

Wang Jwing-Ming, a doctor and the author of 'The Root of Chinese Chi Kung' explains that Qigong practitioners have categorized qi into 'Fire qi' and 'Water qi' within the human body. The terms 'Fire' and 'Water' indicate the effects that the qi has on our body. When 'Fire qi' circulates in the body it causes heat and disrupts biological and psychological processes. On the other hand, when 'Water qi' is circulating smoothly, it enables the body to remain calm and function properly—promoting 'qi fields' around the body and enhancing the orderly operations of the physical-biomolecular body.⁸

The similarities in attributes between 'Fire qi' and 'Water qi' and hot and cold dark matter, respectively, are evident. If 'dark' matter and energy is defined as invisible matter and energy which is beyond the measurement of current scientific instruments; then qi, prana and kundalini would all fit this definition and must be taken into account by Science when studying dark matter and energy—sooner or later. This energy has not only been observed by Eastern metaphysicists, it has also been studied in the West. In the West the term 'L' energy is sometimes used. This 'L' energy or 'life energy' has the same general meaning as qi and prana.

According to Paul Pearsall, 'L' energy fills all of space in the form of bundles of vibrating energy that can manifest themselves as either particles or waves that contain the information transmitted within, and to, all persons and things. 'It passes unchanged through any known substance (in this universe) and nothing shields or deflects it.'⁹ The pervasiveness of 'L' energy and its ability to penetrate objects bears a strong resemblance to the properties of dark matter particles hypothesised by physicists. Compare the description of one type of particle by a scientist (below) with the L-energy described by Paul Pearsall. The similarities are remarkable.

If there are as many WIMPs [or dark matter particles postulated by scientists] as would be required to explain the motions of galaxies, large numbers are whizzing through the room you are sitting in, and through your own body, without you noticing.

John Gribbin ¹⁰

Dark matter within the Galaxy

For decades astronomers have wondered about the origin of certain fast-moving clouds of atomic hydrogen in the vicinity of the Milky Way. Some clouds appeared to be plunging into the galaxy at high speeds and were not rotating with the galaxy; while others seemed to be moving away from

the Milky Way. A synthesis of new radio-telescope measurements, plus re-evaluated data from COBE and the Hubble Space Telescope, indicates that these clouds may be raw material left over from the formation of the 'Local Group' of galaxies—which include the Andromeda galaxy and our own Milky Way. Leo Blitz of the University of California and David Spergel of Princeton University, say that these high velocity clouds will continue to feed the Milky Way (providing fuel for future star formation) and might even harbour dark matter—a hypothesis which would account for the continued stability of the clouds and their unexplained large internal velocities.

D Lin, a University of California astronomer, has shown that the Large Magellanic Cloud that orbits around our own galaxy is being torn apart by the powerful gravitational pull of a dense cloud of dark matter surrounding the Milky Way. This dismemberment of the Large Magellanic Cloud cannot be explained by the gravitational forces exerted by the stars in our galaxy that we can see. Lin calculates that our galaxy's halo of dark matter is equivalent to 600 to 800 billion solar masses, compared to the only 100 billion solar masses of visible matter.

Dark matter within the Solar System

There is dark matter at galactic scales, but can this type of matter be found in our backyard—our Solar System? Recently it has been found that the Solar System, itself, is sitting in an interstellar cloud. The existence of the cloud and its geometry can be deduced from its effect on the spectra of nearby stars and cosmic rays. Priscilla Frisch of the University of Chicago calculates that our Solar System first encountered the cloud (moving at right angles to it) between 2,000 and 8,000 years ago. This cloud and other clouds that passed through the Solar System in the past would give ample opportunities for dark matter to influence the development of life and consciousness on Earth.

Dark Matter in the Sun

Charles Leadbeater, a leading metaphysicist of the twentieth century, and Barbara Brennan, a research scientist and astrophysicist who worked for NASA and now a subtle energy healer, say that the charged globules or bundles of vibrating energy (as described by Pearsall, above) are abundant and energetic on sunny days. On cloudy days, though, they move sluggishly and diminish in numbers.¹¹ Brennan has also observed them being absorbed by plant life.¹² These energetic globules are considered one type of qi by the Chinese or prana by the Indians.

If more of these globules are received on Earth during sunny days than on cloudy days does this suggest that they emanate from our Sun?

According to researchers from the University of Oxford (as reported in the 'New Scientist' journal), the Sun is harbouring a vast reservoir of dark matter. Astrophysicists Ilidio Lopes and Joe Silk reasoned that passing dark matter particles would be captured by the gravity of heavy bodies like the Sun. Not surprisingly, the source of these globules (qi and prana—or 'vital force') observed by metaphysicists is also said to be the Sun. H P Blavatsky, a leading metaphysicist of the nineteenth century, says, 'A fundamental dogma of occult science is that the Sun is the storehouse of Vital Force, and that from the Sun issue those life-currents which thrill through space, as through the organisms of every living thing on Earth—the real Sun being hidden behind the visible Sun and generating the vital fluid which circulates throughout our (Solar) System in a ten year cycle.'¹³ It is significant that Blavatsky mentions the real Sun being hidden behind the visible Sun. It is an obvious reference to a Sun which is ordinarily invisible to most of us and our scientific instruments but visible to some of us—a dark matter Sun!

More than 99% of the mass of the Solar System is concentrated in the Sun. The Sun's magnetic field is unimaginably strong (by terrestrial standards) and very complicated. Its magnetosphere (also known as the heliosphere) extends well beyond Pluto. In addition to heat and light, the Sun constantly emits a low density plasma of charged electrons and protons called the 'solar wind,' which blasts out from the Sun in all directions at very high speeds to fill the entire Solar System and beyond. The solar wind and the much higher energy particles ejected by solar flares can have dramatic effects on the Earth ranging from power line surges and radio interference to the beautiful and mesmerizing aurora borealis—or 'Northern Lights.' The composition of this solar wind has been largely analyzed by Science, up to now, to consist of only ordinary matter in the form of plasma.

If there is a large dark matter reservoir in the Sun, as certain scientists are convinced, it is a logical next step to expect dark matter particles captured by the Sun from various sources to be also blown out of the Sun in its solar wind—just like ordinary matter particles—causing what Blavatsky (above) described as 'life currents which thrill though space.' There is much evidence in the metaphysical literature that the solar wind also carries with it dark matter particles, the charged energetic globules described by Leadbeater, Brennan, Pearsall and others, in the form of a plasma wind. Blavatsky has classified them as high energy 'physical-etheric' particles.

It states in the metaphysical literature (and both in Taoist and Hindu literature) that qi emanates from the Sun. In Chinese culture (under the study of 'feng-shui') it is 'auspicious' for the door of a Chinese home to face the East (in the direction of the sunrise). Qigong practitioners face the Sun

and other stars during their practice. Both the Sun and stars have significant and pervasive magnetic fields and plasma winds that blow out both ordinary and dark matter particles from their hot interiors. Standing in front of the Sun would be like standing in front of an electric fan blowing out qi or prana. On cloudy days, though, it is possible that the Earth's etheric double changes polarity so that it repels the qi particles. Qi is described as 'subtle' energy by metaphysicists because it interacts weakly with ordinary matter.

Dark Matter on Earth

Dark Matter Clouds Passing through Earth

Jürg Diemand, a physicist at the University of California in Santa Cruz, US, and colleagues say that new computations suggest that small clouds of dark matter, which could be detected by future space missions, pass through Earth on a regular basis. He says that perhaps a million billion of them drift around the large dark matter halo that is thought to enclose our galaxy. These clouds float through Earth every 10,000 years in an encounter lasting about 50 years, according to Diemand. However, they do not affect the (physical) Earth to any appreciable effect. Their relatively low densities mean they could only nudge our planet out of its normal orbit by less than a millionth of a meter per second. A NASA detector called EGRET (Energetic Gamma Ray Experiment Telescope) turned up about 200 gamma-ray sources during the 1990s whose origin could not be identified, and Diemand thinks some of these may arise in small dark matter clouds.¹⁴

Dark matter is pervasive throughout the universe. The inhabitants of Earth and the Earth itself are being constantly bombarded by dark matter particles as the Earth and the Solar System sweeps around the Milky Way well beyond supersonic speeds. Gordon Kane says that our Sun is moving around in the galaxy, and the Earth is moving around the Sun. Consequently, all of us, and any detector we build in the lab, is moving through a cloud of the lightest dark matter particles that are more or less at rest in the universe. There might be one or a few in every region the size of a baseball.¹⁵

...the Earth orbits the Sun, which itself is moving through the dark matter halo of our galaxy.

PhysicsWeb.org

Dark Matter Rain on Earth

Professor Rubia of the Italian National Agency for New Technologies, Energy and Environment (ENEA), speaking at the 2004 Institute of Physics

Nuclear Physics Conference in Edinburgh, UK, says that a stream of dark matter might constantly be flowing through the Earth and these could be measurable with underground detectors. Astrophysicist Heidi Newberg at Rensselaer Polytechnic Institute and her colleagues suggest that dark matter may be raining down on Earth from the dwarf galaxy 'Sagittarius.'

The dwarf galaxy is being torn apart and consumed by the much larger gravitational pull of our galaxy, the Milky Way. It's entrails of stars and dust which forms a tail, like a long piece of ribbon, is entangled around and within our galaxy. This tail extends from Sagittarius' centre and then arcs across and below the plane of the Milky Way. The leading part of the tail extends northward above our galaxy where it then turns and appears to be showering shredded galaxy debris down directly on our Solar System. 'As the Milky Way consumes Sagittarius, it not only rips the stars from the smaller galaxy, but also tears away some of the dark matter particles from that galaxy. We may be able to directly observe that in the form of a dark matter highway streaming in one direction through the Earth,' says Newberg, who has recently identified stars near the Sun that could be part of this tail.

As Earth orbits around the centre of the galaxy, the planet flies through this cloud of dark matter. As that happens, millions of weakly interacting (and therefore difficult to detect) dark matter particles would be raining down on Earth and passing through each of our bodies every second, according to the scientists.¹⁶

Dark Seasons on Earth

According to the research scientists, there would be an annual modulation or seasonal variation in the amount of dark matter particles raining through the Earth because of the motion of the Earth relative to the Solar System. Our galaxy is embedded in a much larger cloud of dark matter. The Solar System passes through this massive cloud of dark matter particles as it revolves around the galactic centre. The seasonal variation arises because as the Solar System is moving through the cloud, the Earth is moving around the Sun. In December, the Earth is moving against the direction of the motion of the Solar System as the latter moves around the galactic centre. In June, the Earth moves in the same direction as the Solar System as the latter moves around the galactic centre. This dark matter rain would be experienced seasonally, just like the terrestrial monsoon rains that sweep central Asia every year. In the same way that a cyclist gets wetter when riding into the wind in a rain, than when riding with the wind, any dark matter detector would record more dark matter particles in and around June than around December. The voluminous records of DAMA, a

dark matter detector, confirm this exactly.¹⁷

It is curious that the Chinese celebrate an ancient festival called the 'Hungry Ghosts' month around August each year. They believe that souls are freed in this month to roam the Earth. This belief probably arose from observations that there were more manifestations or sightings of ghosts around this month. The tilt of the Earth's axis could also influence the peak season for the 'dark matter rain' relative to each country. Like the more terrestrial monsoon rains that come around the region each year, the annual modulation or seasonal variations in the volume of dark matter passing through the Earth every year therefore suggests that the ancient Chinese festival may have a deeper scientific significance.

Dark Matter within Earth

Dark matter particles are captured and sediment within Earth due to Earth's gravitational attraction. Scientists have speculated that there could be a large reservoir of dark matter within Earth. Leadbeater, the metaphysicist, says that kundalini originates from the Earth's core—distinguishing it from prana or qi which emanates from the Sun. He observes, 'The force of kundalini in our bodies comes from deep down in the Earth. It belongs to that terrific glowing fire of the underworld. That fire is in striking contrast to the fire of vitality which comes from the Sun.'¹⁸

Conclusion

All this suggests that qi, prana and kundalini are, by definition and observation, types of dark matter and energy (since they are invisible matter and energy, beyond the electromagnetic spectrum known to Science). Furthermore, they originate from different sources; low density prana and qi blasted out from the Sun with the solar wind; high density kundalini from the Earth's core and perhaps another type of qi arising from dark matter rain issuing from clouds over our galaxy.



Super Matter

What exactly is dark matter and energy?

Since dark matter and energy fills 99% of the universe, it would be simplistic to assume that they would be composed of only one type of particle. There is probably a great diversity of particles and energies included in dark matter and energy—including exotic particles and energies which escape the imagination of both physicists and metaphysicists at present.

There have been recent theories in physics which shed some light on the composition of dark matter and energy. The common feature about these theories is that they invoke ‘standard’ or ‘super’ mirror-symmetries to extend the known particles and forces, under the ‘Standard Model’ used by physicists, to dark matter particles. Standard mirror-symmetries are defined in this book as symmetries which arise from the use of a ‘standard mirror’ which reflects a particular attribute, without a change in the energy level. Super mirror-symmetries arise from the use of a ‘super mirror’ to reflect a particular attribute—but at a higher energy level.

Shortcomings of the Standard Model

Physicists have been using the very successful Standard Model for several decades to classify the plethora of elementary particles discovered in the twentieth century. Using this Standard Model, physicists were able to speculate on

the existence of particles and subsequently discover them in particle accelerators. This was done by observing the 'missing spaces' in the model, just as the 'periodic table' was used in an earlier century to identify and discover elements by observing the 'missing spaces' where certain elements should be located based on mathematical symmetries.

The Standard Model, however, does not explain why particles should have their masses or how they got their relevant masses. The model also does not include the graviton. Since gravitational fields are pervasive throughout the universe and the graviton is the particle mediating the gravitational force, this is a significant shortcoming of the model. The limitations of the Standard Model got physicists started on more comprehensive models—the most popular being the models provided by 'Superstring theories.'

At low energies, Superstring theories were able to derive all the particles under the Standard Model simply by observing mathematical symmetries! They were also able to derive the graviton. Superstring theories, therefore, provided a more comprehensive and elegant model.

Superstring theories also predicted a new set of particles. Standard matter particles in the Standard Model were reflected as a new set of super force particles. Conversely, standard force particles were reflected as a new set of super matter particles. Current scientific instruments, however, have not yet detected any of these new sets of super particles at low-energies—although the presence of large amounts of dark matter suggests their presence. Why have they not been observed in the laboratory? This is where the breakthrough came—a change of mindset in Science that metaphysicists were hoping for—a shift in paradigms! Physicists concluded that they cannot be seen or measured with our current scientific instruments because they must be highly massive particles—exactly the conclusion reached by metaphysicists decades and even centuries ago.

David Peat, a renowned scientist-philosopher of the twentieth century, who worked with leading physicists including David Bohm, says that we can only 'see' elementary particles and phenomena which come within our range. If there are indeed more massive particles around, then we simply cannot see them.¹ Tom Siegfried says that a mirror universe could exist in the same space as our universe if the 'mirror' is sufficiently distorted, sort of like in a carnival funhouse. He suggests that 'mirror particles' are a little bit heavier than ordinary 'standard' particles. A mirror electron might be 10 or 100 times heavier than the standard electron. Mirror protons and neutrons would also be more massive.²

Super Particles and Universes in Mainstream Physics

The new particles are more massive (or more energetic—as mass is equivalent to energy according to Einstein’s theories) than standard particles and have been reflected using not standard mirrors but by ‘super mirrors.’ Hence, they are called SUPER particles by physicists. The low energy particle accelerator experiments that scientists have been conducting in the past can only detect low energy and less massive particles. Higher energy experiments are required to detect these more massive (or more energetic) particles. Superstring theories postulate that every standard particle we observe has a massive (or more energetic) ‘shadow’ super particle.

Every fundamental matter particle should have a massive ‘shadow’ force carrier particle, and every force carrier should have a massive ‘shadow’ matter particle.

Particle Data Group of Lawrence Berkeley
National Laboratory³

Richard Morris says that Superstring theories predict the existence of ‘shadow matter,’ which would interact with ordinary matter through the gravitational force. This implies that it could be neither seen nor felt.⁴

If someone tried to grasp a chunk of shadow matter, her hands would pass right through it. It has been said that one would walk through a shadow matter mountain or stand at the bottom of a shadow matter ocean and never know it. Shadow matter particles could interact with one another according to physical laws similar to those of our world. It is possible that there could be shadow matter planets, and perhaps even shadow matter organisms.

Richard Morris, Physicist⁵

According to one Superstring theory, the (E8 x E8) Superstring theory, shadow universes interpenetrate our universe. They have their own forces and particles—even their own intelligent entities. John Gribbin says that since only one of the E8 components is needed to describe everything in our universe that leaves a complete duplicate set of possibilities. The symmetry between the two halves of the group broke at the birth of the universe, when gravity split apart from the other forces of nature. The result would be the development of two universes, interpenetrating one another but interacting only through gravity—our world and a so-called ‘shadow’ universe.⁶

There would be shadow photons, shadow atoms, perhaps co-existing in the same spacetime that we inhabit, but forever invisible. A shadow planet could pass right through the Earth and never affect us, except through its gravitational pull.

John Gribbin, Physicist ⁷

David Peat says that each E8 group describes its own universe, particles and forces. Each group is complete, being able to fully account for the known elementary particles and forces of nature. Since the forces (except mainly for the gravitational force) are confined within each group, the elementary particles in one group are invisible when viewed from the other group. Both (E8) universes coexist within a single spacetime that is curved by their combined mass and energy.

It is indeed theoretically possible for a shadow universe to exist in parallel to our own. While we would feel its gravitational effects, this shadow universe would be otherwise invisible. Photons [light] from the shadow group would have no interaction with the matter in our universe.

David Peat, Physicist ⁸

Metaphysicists believe that there is not only one other 'E8' universe or one other 'shadow' universe, but a number of interpenetrating super universes.

Super Particles and Universes in Metaphysical Literature

The recent findings in Science echoes what metaphysicists have been saying over the centuries. Theories of super particles and interpenetrating universes may be new to mainstream physics but there are detailed references to such particles and universes in metaphysical literature, as the following references will show.

In the 1970s I K Taimni, a metaphysicist, discussed at length of the existence of more massive particles and interpenetrating super universes. He pointed out decades ago (based on the metaphysical literature) that on each plane of existence the band of wavelengths (i.e. the electromagnetic spectrum) operating on the plane corresponds to the range of sizes of particles in that plane. Theoretically 'an infinite number of systems with vastly varying sizes of particles and wavelengths can be accommodated in the Cosmos,' according to him.⁹

The differences between the sizes of particles and wavelengths can be enormous and so one system can remain within another system without any common ground between the two, and therefore without the inhabitants of one system knowing of the existence of the other inhabitants.

I K Taimni, 1974, *Metaphysicist*¹⁰

Taimni said in the 1970s that there were massive particles belonging to another universe, ordinarily invisible to us—exactly what scientists are saying now. He explained that the systems or universes will not interfere or come in contact with each other on the ‘material plane’ and their inhabitants. These inhabitants will not be able to cognise the phenomena or inhabitants of the other systems as their sense-organs are organised for particular ranges of vibrations (i.e. frequencies).

Around 1910 Leadbeater, another metaphysicist, said that a man living in the physical world sees, hears and feels by vibrations connected with the physical matter around him. However, he is surrounded by (super-physical) ‘astral’ and ‘mental’ worlds, which are interpenetrating his own denser world, which he is normally unconscious of, because his senses cannot respond to the oscillations of their matter¹¹; just as our physical eyes cannot see ultra-violet light although scientific instruments can detect and measure it.

In 1896 Annie Besant explained that just as a blind man cannot see physical objects so it is that most human beings who are currently ‘astrally-blind’ cannot see (super-physical) astral objects at all. According to her, at the present stage of evolution, many people could develop astral senses and are developing them to some extent. But they must learn how to see astral objects. Various scientific experiments show that the brain of a child or a blind person, who undergoes surgery to restore vision, has to learn how to see even physical objects. The vision of physical objects does not come about immediately. According to Besant, mistakes can be expected. After a time, and after mistakes are corrected, the vision of astral objects can become more accurate.

She warns that the development should not be forced as the intrusion of astral sights and sounds can be disturbing and even alarming¹²—not to mention the ridicule that astrally-sensitive people may be subject to by their friends and family (or even the ‘scientific’ community) who cannot see or hear the same things—just as Galileo was ridiculed and persecuted by the Church of his time when he saw things in his telescope which the Church could not see or believe in because they refused to use the available apparatus—being afraid of the ‘metaphysical.’ Galileo’s metaphysics and

so-called devil-inspired theories are now accepted in today's mainstream physics and astrophysics.

Even the idea of a 'shadow body' based on super mirror-symmetries was well-known in metaphysics. In 1896 Besant explained:

The [ordinarily invisible] etheric double is the exact duplicate of the visible body—its shadow, as it were, particle for particle.

Annie Besant, 1896, *Metaphysicist* ¹³

Super (Interpenetrating) Universes

Besant, who had presumably first-hand knowledge of other universes, provided her findings on interpenetrating universes in 1893! She described the existence of regions in the universe, other than the physical, peopled with intelligent beings. She explains that if these entities did not have organs of sense like our own, if their senses responded to vibrations different from those which affect ours, 'they and we might walk side by side, pass each other, meet each other, pass through each other, and yet be never the wiser as to each other's existence—an unconscious co-existence of intelligent beings,'—echoing typical descriptions of shadow universes given by scientists today. According to her, the existence of such regions is postulated by the 'Esoteric Philosophy.'

She says there is a region which is peopled by intelligent and semi-intelligent entities; it is crowded, like our world, with many types and forms of living things, as diverse from each other as a blade of grass is different from a tiger, a tiger from a man. This region is also inhabited by disembodied human beings. 'It interpenetrates our own world and is interpenetrated by it, but, as the states of matter (particles and energy levels) of the two worlds differ, they co-exist without the knowledge of the intelligent beings in either.'¹⁴ No doubt, interpenetrating universes must have been discussed at some length by various metaphysicists of that time.

Sir William Crookes posted an article in the 'Fortnightly Review' in 1892, stating that it is not improbable that other sentient beings have organs of sense which do not respond to some or any of the 'rays' to which our eyes are sensitive, but are able to appreciate other vibrations to which we are blind. He added that such beings would be living in a different world to our own.

Metaphysicists would interpret the duplicate E8 universe (predicted by mainstream physicists) as the higher energy etheric double of our universe. When symmetry broke at the Big Bang, our universe moved 'down' (relatively-speaking) to a lower-energy level. Its etheric double, composed

of super etheric particles, moved 'up' (relatively-speaking) to form an interpenetrating physical-etheric universe.

Super Particles

Super particles have been observed by many experimental metaphysicists. In Hindu metaphysics, we find references to not only 'anu' (the standard particles) but also 'param-anu' (beyond the anu or super particles). Early in the twentieth century many references to super particles have been made in the writings of Leadbeater and Besant, and in the compilations of Arthur Powell. Leadbeater, perhaps the person who contributed most to twentieth century experimental metaphysics and a prolific writer, states a number of times in various books and papers about the existence of super particles and super interpenetrating universes.

Every particle in the physical brain has its astral counterpart, and this in turn has its mental counterpart.

Charles Leadbeater, 1913, Metaphysicist ¹⁵

Leadbeater explains that if the whole of the physical brain is spread out so as to be one particle thick and that the corresponding astral and mental matter is also laid out in layers in a similar manner, the astral a little above the physical, the mental a little above the astral; we would then have three layers of differing particle densities, all corresponding one to the other, but not joined in any way except here and there with 'wires of communication.'¹⁶

References to the astral and mental counterpart particles are clear references to super particles. It is an accepted fact in the metaphysical literature that 'astral' particles are particles with much higher energies (and therefore higher equivalent mass in accordance with Einstein's most famous equation $e=mc^2$) than standard particles. The metaphysical literature also indicates that there was awareness of the interactions and relationships between standard and super particles, and the invisibility of super particles (from our current frame of reference).

Leadbeater and Besant explain in their book 'Occult Chemistry' published in 1919 that a physical atom cannot be directly broken up into astral atoms. If the force within the 'ultimate physical atom' (or anu) is pressed back over the threshold of the astral plane (in other words, if the energy levels are increased beyond the physical plane), 'the atom disappears' they say. The same force (or more accurately the energy) working on a higher plane then expresses itself through astral atoms.' It is significant that Leadbeater and Besant reiterate that the higher energetic atoms 'may vanish from the plane' ¹⁷—making it part of invisible (dark) matter. The standard particle was

referred to as the 'physical atom' and the super particle the 'astral atom.' If the mass (energy or frequency) of the standard particle was increased beyond a certain threshold, it would become invisible and 'disappear' i.e. it would become what scientists would call dark matter.

As the frequency of the particle was raised, it was pushed out of the known electromagnetic spectrum. The fact that super particles are invisible from our everyday frame of reference was reiterated many times by various metaphysicists. Leadbeater says that when a man picks up (let us say) a piece of stone, he can see only the physical particles of that stone, but that in no way affects the 'undoubted fact' that that stone at the same time possesses within it particles of matter of the astral, mental and other higher planes.¹⁸ Once again, we have clear references to the super-physical astral and mental particles which are often cited in metaphysical literature. According to Superstring theory, the super particle is a shadow partner or counterpart of the standard particle. Here, a metaphysicist says the same thing:

Every solid, liquid and gaseous particle of the physical body is surrounded with an etheric envelope: hence the Etheric Double, as its name implies, is a perfect duplicate of the dense form.

Annie Besant, 1896, Metaphysicist ¹⁹

'Physical-etheric' particles, as will be explained in later chapters, make up the first level of super particles according to metaphysicists. Almost all the super particles or shadow objects proposed by physicists currently can be found within this level.

Astral matter, being much finer than physical matter, interpenetrates it. Thus a being living in the astral world might be occupying the same space as a being living in the physical world; yet each would be entirely unconscious of the other, and would in no way impede the free movement of the other. The different realms of nature are not separated in space but exist about us here and now. Each world has its inhabitants, whose senses are normally capable of responding to the undulations of their own world only.

Charles Leadbeater, 1912, Metaphysicist ²⁰

This echoes the current descriptions given by mainstream physicists of shadow matter and interpenetrating universes under Superstring theories. In 1910 Leadbeater said that to examine a (physical) object a man is

using a physical organ (the eye) which is capable of appreciating only certain 'rates of undulation' radiated by certain types of matter. If he should develop 'astral consciousness' he would then be employing an organ which is capable of responding only to the vibrations radiated by another and finer part of that object. If in developing the astral consciousness he had lost the physical—that is, if he had left his physical body—he would be able to see only the astral and not the physical.²¹ What you see would therefore depend on which sensory system you are using—physical, astral etc.

Mainstream physics currently asserts that there is only one other level above the standard particles representing one new set of super particles (because these two levels explain most of the known particles and forces). There is a large amount of anecdotal evidence in the metaphysical literature that there are multiple levels of super particles. There is, therefore, reason to believe that there are more levels—which have not yet been identified by current scientific theories. These particles, in increasing frequency, are generally called the physical-etheric, astral and causal particles in metaphysics. The super particles identified by physicists currently only represent the 'physical-etheric' level of particles.

Considering that dark matter and energy make up 99% of all matter and energy in the universe (only 1% consisting of ordinarily visible standard particles) it is not difficult to imagine more than one level of super particles. On the contrary, it is difficult to imagine one level of standard particles making up 1% of the total matter and energy in the universe, and the other 34% made up of only one level of super particles. (The other 65% is made up of what scientists call 'dark energy'.)

Shadow/Super Matter vs. Dark Matter

Physicists have dubbed the matter composed of super particles 'shadow matter.' This matter will be ordinarily invisible—just like dark matter. Shadow matter interacts with standard ordinary matter mainly through weak gravitational fields—also, much like dark matter. Shadow (or super) matter consists of matter concentrations similar to that produced by hot or cold dark matter.

Superstring theories were developed in the pursuit of 'Grand Unified Theories' and 'Theories of Everything.' The evidence for dark matter (from astrophysicists) came about independently of these theories. The close correlations between shadow and dark matter were noticed only later. To some extent, this validates Superstring theories. John Gribbin says that one reason that the idea (of a shadow universe) has been taken seriously is that there is astronomical and cosmological evidence that a lot of the universe exists in the form of dark matter, detectable gravitationally but not seen.²²

David Peat agrees. Current theories of the large scale structures of the universe, using the results of astronomical measurements, predict that the mass of the universe is much more than what is observed. When the mass in all the ordinarily visible and measurable stars and intergalactic dust is added together, it turns out to be too small. Either these theories are wrong or some additional mass must be hidden from us. The idea of a shadow universe is an ideal way of explaining missing mass, says David Peat.²³

Dark Matter Planets within the Solar System

According to metaphysicists, besides physical planets (which have their astral and causal counterparts); there are also astral planets (with their causal counterparts) and purely causal planets in the Solar System. According to Leadbeater, the whole of the astral portion of our Earth and of the physical planets, together with the astral planets make up collectively the astral body of the Solar System. A similar description could be made of the causal body of the Solar System. The causal body of the Solar System comprises not only the causal spheres belonging to each physical planet, but also those belonging to each astral planet, and in addition purely causal planets. While each sphere (the physical-etheric, astral and causal) interpenetrates the other, the physical-etheric, astral and lower causal spheres are not extensive enough to have links with the corresponding spheres of any other planet.²⁴ Paramahansa Yogananda says that just as many physical suns and stars roam in space, so there are also countless astral suns and moons.²⁵ According to Norman Pearson, so far we have only considered physical planets; but there are also planets composed of 'super-physical' matter. In fact, the super-physical planets form the greater part of the planetary population of the Solar System, according to him.²⁶

Unexpected gravitational forces experienced at the edge of our Solar System by NASA's Pioneer 10 and 11 were attributed to the pull of dark matter by Marcus Chown.²⁷ According to the metaphysical literature there are ordinarily invisible astral and causal planets within the Solar System. This explains the 'Pioneer anomaly.' In a hospital in Switzerland in 1944, the world renowned psychiatrist Carl Jung had a heart attack, then a near-death experience. In this experience, Jung saw the Earth from over a thousand miles out in space. High above India, he could see the Arabian deserts and the snow-capped Himalayas. Then he spotted a huge meteorite floating towards him and a being on it. Jung probably saw an astral being on an astral meteorite, while in his astral body in the astral magmasphere. J H Brennan agrees with this analysis.²⁸

Computer simulations of galaxy formation suggest that there should be many more small galaxies in the universe than observations indicate.

Some astrophysicists have suggested that the missing galaxies elude observation because they're rife with dark matter yet all but devoid of ordinary star-forming matter. Chung-Pei Ma, an associate professor of astronomy at UC Berkeley, and Edmund Bertschinger of the Massachusetts Institute of Technology (MIT) say that computer simulations of the evolution of dark matter predict far more clumps of dark matter than ordinarily visible luminous matter in a specified region. If luminous matter follows dark matter, there should be nearly equivalent numbers of each. But, based on the computer simulations, this isn't so. Ma says, 'Our galaxy, the Milky Way, has about a dozen satellites, but in simulations we see thousands of satellites of dark matter. Dark matter in the Milky Way is a dynamic, lively environment in which thousands of smaller satellites of dark matter clumps are swarming around a big parent dark matter halo, constantly interacting and disturbing each other.'²⁹ Hence, we would expect astral and causal planets and stars to outnumber planets and stars with an ordinarily visible physical component to them.

Hence, besides physical bodies, there is a mixed bag of astral and causal planets, moons, asteroids and meteorites in the Solar System. The Sun, too, has its dark matter astral and causal counterparts. What's more the astral and causal universes have their own astral and causal galaxies, stars and planets—only a small number have physical counterparts which are ordinarily visible to us in our universe. The billions of galaxies and stars that we can see in the night sky, though staggering, represent only 1% of the local multiverse!

Mirror Matter

Many of the interactions in this (ordinarily visible) universe seem to be biased to the left. It is a known fact that the interactions of the known elementary particles, such as the electrons, protons and neutrinos, violate parity—they have left-handed interactions. Physicists called this a violation of 'parity.' If we based our understanding of the multiverse only on what happens in this 'left-handed' universe then there appears to be a violation of mirror-symmetry. However, every violation of symmetry points to a mirror universe. If ours is a left-handed universe, then perhaps somewhere out there, there must also be a right-handed universe. Is there a 'right-handed universe' interpenetrating our space?

Z K Siladge and Robert Foot think so. Furthermore, they think this can account for at least some of the dark matter observed. Siladge, in his paper 'Mirror objects in the Solar System,' says that nobody doubts that parity violations are firmly established experimentally. But, this does not necessarily mean that Nature is asymmetric (or that parity or mirror-symmetry has been

violated). Symmetry can be restored if we can imagine a mirror world where for any ordinary particle there exists a 'mirror' particle.³⁰

The solution to the observed asymmetries within our own universe is therefore to postulate that there is a mirror universe which restores overall symmetry. The left-handedness of ordinary particles can then be balanced by the right-handedness of mirror particles. According to Foot, in his book 'Shadowlands,' a range of persuasive evidence exist for mirror matter—and therefore dark or invisible matter.³¹

According to Foot, mirror matter should not be confused with anti-matter which has quite different properties. Anti-matter is the 'mirror-matter' relating to the reversal of the electric charge whereas Foot's mirror matter relates to the reversal of parity (i.e. 'left-right' reversal). Is there any relationship between this mirror matter and super matter?

Siladge, a strong proponent of mirror matter, equates mirror matter with shadow matter. These mirror particles are similar to super matter in that they are ordinarily invisible and interact with ordinary matter mainly through the gravitational field. It is, however, based on Foot's theory, different from super matter in that they have the same range of masses as standard particles. In other words, Foot is using a 'standard mirror.' Foot's mirror matter particles have the same energy levels as standard particles, except that they are 'right-handed' rather than 'left-handed.' The universe containing these mirror particles is considered a shadow universe with its own forces and particles.

In many cases, when Nature breaks symmetry it does not create two equal opposite halves. Instead, there is an underlying asymmetry that accompanies the break in symmetry which ensures that the two opposites are kept apart. This has happened for the imperfect mirror symmetry between matter and antimatter—allowing matter to dominate in our universe; and the imperfect (super) mirror symmetry between force and matter particles in Superstring theories. John Hitchcock observes that Nature seems to be dissatisfied with too much symmetry. He points out that nearly all the symmetries in nature are less symmetric than the cause that gives rise to them.³² Nature, at lower energies, has a passion for imperfect symmetry. This means that the partners of left-handed particles in our universe are most probably reflected in a super right-handed universe. There is evidence of this in the metaphysical literature!

Parity Reversals in Metaphysical Literature

After lifting out, I carefully examined the physical body on the bed. I reached down to touch my physical head, and my hands touched feet! I felt my toes. My left big toe has a thick nail—this left toe did not! The big toe on the right foot did have the thick nail. Everything was reversed, like a mirror image. There is a possibility that the Second Body is a direct reversal of the physical.

Robert Monroe ³³

The reversal of parity occurs because the lowest super universe (or the 'physical-etheric universe' in metaphysical parlance) is a right-handed universe. But it goes beyond current scientific expectations as it is also an upside-down world—a case of a 'double-parity' reversal! Robert Monroe, in his book 'Journeys Out of the Body' explains (above) that when he tried to touch his head, he touched his foot instead (top-down reversal). When he tried to touch his left toe, he felt his right toe (left-right reversal).

In an experiment conducted by William Tiller, this parity reversal has also been observed. Tiller, reporting on this experiment, says that children see the spectrum with their physical eyesight and also a bent-up spectrum with their 'auric eyesight.' He concludes that from this study, 'We can confirm the concept of a type of "mirror" relationship functioning between the physical level and the next, more subtle (physical-etheric) level of reality.' Tiller also reports that Qigong practitioners appear to be projecting a type of magnetic energy with inverse characteristics to a regular magnetic field.³⁴

Robert Monroe says that when someone is undergoing a dramatic shift in consciousness, such as having an out-of-body experience, the body's polarity, or electromagnetic field, simply reverses itself.³⁵ In 1939, W E Burge of the University of Illinois found that the voltage measured between the head and other parts of the body became more negative during physical activity, declined in sleep and reversed to positive under general anesthesia. Robert Becker and Charlie Howard also found that the back to front current in the human head varied with consciousness. It was strongest during heightened physical or mental activity, it declined during rest, and it reversed direction in both normal sleep and under anesthesia.³⁶ The polarity reversals betray shifts in the locus of awareness from one body to another. In normal waking consciousness, physical awareness is located in the biomolecular and the lower etheric physical bodies. During deep sleep this awareness shifts to the higher etheric double. The higher etheric body

is not only of reversed parity; but also reversed polarity or charge.

Matter dominates this universe because anti-matter particles were pushed up to higher-energy levels. This is based on the observation that physical-etheric particles appear to possess a reversal in charge. The (standard) anti-matter particles so far observed by Science in our current universe are probably stray low-energy particles, created ad hoc in the laboratory or in space. Physical-etheric particles are super anti-matter particles.

At an even higher energy level (the causal universe, plane or sphere) there is also a foreground-to-background reversal which was observed by Barbara Brennan.³⁷ These spatial reversals can make analysis of events in higher energy universes very tricky—even ignoring time reversals which cannot be ruled out!

Metaphysics and Mainstream Physics

The metaphysical literature over the centuries contains theories and research on all the matter described as dark matter, shadow matter and mirror matter in recent scientific literature! In fact, many of the recent discoveries in Science have been anticipated and discussed by serious metaphysicists. Take for example Superstring theory. It has been touted by scientists as ‘a twenty-first century theory which fell into the twentieth century.’ But see what this metaphysicist had to say about higher dimensional strings in the nineteenth century!

Where else would nature choose to manifest its four-dimensional character but at the atomic scale? Atoms might actually be thin, four-dimensional threads whose cross-sections are seen as microscopic, three-dimensional bodies.

Charles Hinton, 1887³⁸

This is exactly how physicists portray the relationship of a string to particles. David Gross says in string theory ‘there is an extended one-dimensional object which can appear to us in many different forms’ (or as different particles) just as one violin string can give rise to many sounds (or notes).³⁹ In other words, ‘cross-sections’ of a string will appear as particles. Furthermore, under Superstring theory, the number of space dimensions increases in microscopic realms.

Leadbeater and Besant have also used the concept of strings. According to Leadbeater a quivering thread of intense light, called the ‘Sutratma’ in Hindu metaphysics, connects the ‘permanent atoms’ or the nuclei within the various invisible high-energy bodies that a person has. Annie Besant says, ‘...the permanent particles will be threaded on it like beads on a string.

The term “Sutratma” is always used to denote the idea of a thread connecting separate particles.⁴⁰ String analogies have also been used in ancient Hindu metaphysical and religious literature.

From (zero-dimensional) point-particles, physicists have gone on to formulate (1 dimensional) strings. They have now stumbled onto (2 dimensional) membranes. Each time they add a dimension to the elementary object, the universe gets simpler but the object gets more complex. Each time they reduce a dimension from the elementary object, the object gets simpler but the universe gets more complex. Very soon we will hear of some brilliant physicist who had formulated (3 dimensional) vibrating spheres to explain ‘everything.’

Science would do well to pay attention to the metaphysical evidence to accelerate the world’s understanding of the nature of the local multiverse. There are so many correlations between recent theories in mainstream physics and metaphysics that Science would be poorer if it did not review the tireless work of many serious metaphysicists throughout the ages to explore new directions in Science, rather than being distracted and prejudiced by stray charlatans and sensationalists.

Stephen Philips, a theoretical physicist, draws many convincing parallels between Leadbeater’s work and modern physics.⁴¹ How do metaphysicists obtain this knowledge? They literally conduct experiments using their higher energy bodies. Science has yet to develop instruments that can detect higher energy or more massive dark matter particles but Nature has already endowed all of us higher energy bodies to conduct our own experiments, millions of years ago! Experimental metaphysicists have already used their higher energy bodies to conduct many experiments and have also developed specialized techniques to enable them to investigate the universe (both our current and higher energy universes).

Their research and those of many other tireless metaphysicists, who continued their work despite constant misunderstanding, criticisms and blind spots in the scientific community, will be discussed in this book. Their findings go far beyond many mainstream scientific findings in terms of their impact on the evolution of individuals and the human race as a whole.



Magma (Magnetic Plasma) Universes

Plasma Everywhere!

Plasma, which is rare in our close environment, is the dominant state of matter in the visible universe. The Sun and stars, as well as the diffused matter between them and between galaxies, are all in this state; despite great differences in density and temperature. A negligible amount of the matter in the visible universe make up the cold celestial bodies such as the Earth and other planets, the moons, asteroids, comets, meteoroids, and dust grains.

Space probes have found electrified matter in layers around the Earth—and also farther out—blowing out from the Sun. In addition, the probes have discovered weak magnetic fields in interplanetary space that were guiding the movement of the plasma wind from the Sun. After travelling for more than 20 years and at the edge of the Solar System, Voyager 1 and 2 have reported that they are still in a plasma environment!

Plasma makes up more than 99% of our visible universe! In other words, molecular matter, which is so abundant on this planet and which makes up the bodies of a myriad of life-forms including our own, is not representative of matter even in this universe. In fact, it gives us a very misleading picture of our visible universe. The visible universe is, in fact, a plasma universe with bodies of plasma in a pervasive cloud of diffused plasma. Molecular and biomolecular matter are practically non-existent—considering the visible

universe as a whole.

If that was so, then there is also a high probability that dark matter in invisible super universes are also in the form of plasma. The metaphysical literature suggests so.

What is Plasma?

To understand what plasma is, think of a hydrogen atom. As a whole, it is a neutral 'particle.' It consists of basically a positively-charged proton in the nucleus with a neutralizing negatively-charged electron forming a cloud around the nucleus. If enough energy is supplied, the electrons and protons will be able to break away from their atoms, overcoming their binding energies. They then separate to form a negatively-charged soup of electrons (or 'negative ions') and a positively-charged soup of protons (or 'positive ions') which is overall neutral and exhibits collective behavior. In other words, only the configuration of particles has changed. Instead of (Proton¹ + Electron¹) + (Proton² + Electron²) + (Proton³ + Electron³)—as in atoms, it is now (Proton¹ + Proton² + Proton³) + (Electron¹ + Electron² + Electron³)—in a '2-component' plasma.

Since there are large soups of free electrons in plasma, standard plasma (or plasma composed of standard particles) is an excellent conductor of electricity, far exceeding the conducting properties of metals such as copper or gold. They also respond to electrical and magnetic fields and can be an efficient source of electromagnetic radiation. Beams of electrons in plasma radiate microwaves. Plasma can become transparent or translucent as a result of an inter-play of frequencies within the plasma. Many types of plasma are also low density since they are composed of soups of particles of like charges which repel each other within the soup.

Examples of plasma in everyday objects include fluorescent lamps and neon lights. The aurora borealis (or Northern Lights) is another example of plasma. The Sun and stars are balls of plasma. All these objects emit light. The separation of electrons and (positive) ions produce electric fields and the motion of electrons and ions, within the plasma, generate both electric and magnetic fields. The electric fields accelerate the charged particles to high speeds, while the magnetic fields guide and confine them. Because of this strong interaction with electromagnetism, plasmas display a complexity in structure that far exceeds that found in solids, liquids and gases.

Magnetic Fields Everywhere!

Philipp Kronberg of the University of Toronto finds magnetic fields every place he has looked in the Cosmos: within the Milky Way, in intergalactic areas within galaxy clusters and even outside clusters. Angela Olinto of

the University of Chicago believes that magnetic fields existed at or shortly after the Big Bang and influenced subsequent galaxy formation and even the distribution of matter now seen imprinted in the cosmic microwave background.

On Earth, magnetic field strengths can be found from about 0.5 gauss. The larger planets have magnetic fields reaching many gauss, while the magnetic fields of stars are much higher—at 30-40 kilo gauss. Large scale magnetic fields have also been discovered in distant cosmic objects. The centre of our galaxy has milligauss magnetic field strengths stretching out across vast distances. Scientists tell us that no rotating object in the universe is devoid of a magnetic field.

Where did the Magnetic Fields come from?

Just as scientists once asked where unaccounted gravitational fields at the edge of visible galaxies came from; they have also asked where these pervasive magnetic fields, which could not be traced to visible matter, may have come from. Not surprisingly, scientists theorised that the unaccounted magnetic fields in our universe are generated by the equally pervasive dark matter and energies in the local multiverse and permeate into our visible universe! Both gravitational and magnetic fields (not accounted for by visible matter) are indirect evidence of dark invisible matter. However, it begs the question: How does the dark matter generate magnetic fields?

The natural tendency of plasma to carry currents is an important source of magnetic fields. We know from basic electromagnetics that currents generate magnetic fields around them. Since plasma is pervasive throughout the universe, scientists believe that virtually all visible matter in the universe is magnetised. But magnetic fields are also found outside galaxy clusters where there is no visible matter. Where did these come from? The evidence points to dark super plasma.

If dark matter generates magnetic fields, as scientists think, this suggests that there is a high probability that dark matter is largely in the form of plasma composed of super particles (or super plasma) as this gives dark matter the ability to generate magnetic and electric fields. The presence of magnetic and electric fields (generated by the lowest energy super universe) can affect the dynamics of plasma in our universe, even more significantly than gravity.

Magnetic Fields Guide and Give Form to the Universe

Magnetic fields are the architects of the universe. They guide charged particle movements which sweep up both charged and neutral matter with them to shape matter into different forms. Scientists studying patterns in plasma

from the laboratory and in interplanetary space infer that there is a hierarchy of magnetic fields in the universe with an associated hierarchy of electric currents. Magnetic fields and electric currents 'feed' on each other and breed new fields and currents.

Magnetism is the fundamental force that determines the character, motion and shape of ionised matter (or plasma). It therefore determines the large scale structure of our universe and super universes. The degree of ionisation in interplanetary space and in other cosmic plasma may vary over a wide range, from fully ionised to degrees of ionisation of only a fraction of a percent. Even weakly ionised plasma reacts strongly to electromagnetic fields since the strength of the electromagnetic force exceeds many times the gravitational force. Electromagnetic fields play an important role in the dynamics of plasma, and the dynamics of plasma often give rise to electromagnetic fields. The close correspondence between observed magnetic fields and those modeled in supercomputers, relating to interactions of intergalactic-current filaments, provide further evidence to scientists that magnetic fields shape galaxies and the large-scale structure of the universe.

In diffused, weakly ionised matter, which forms a major part of the universe, the motion of each individual charged particle is strongly controlled by the magnetic field. For example, a hydrogen ion in the solar wind may experience a magnetic force more than 100 times stronger than the gravitational force from the Sun. Within the framework set by the larger magnetic field, the charged particles of plasma engage in their own complex electromagnetic interactions, generating a web of filamentary currents.

Magnetic Plasma (Magma)

Klaus Dolag says that from the Earth's ionosphere, out to the most distant intergalactic regions, all cosmic plasma are penetrated by magnetic fields that influence their physical properties in various, often dramatic, ways. Once plasma contains magnetic fields, they move with the plasma as if the magnetic field lines were frozen in. Since the magnetic fields move with the plasma, they are compressed with the plasma, and their strength increases as the plasma becomes more and more dense.¹ Any rotation of the plasma would twist the embedded magnetic field.

Magnetic fields within plasma allow the formation of unique structures within plasma and regulate the flow of charged particles. These types of plasma are called 'magnetic plasma' or 'magma' for short, in this book.

Birkeland Currents

In a paper on 'The Evidence for Electrical Currents in Cosmic Plasma'; Anthony Peratt, from the Los Alamos National Laboratory, states that

there is a tendency for charged particles to follow magnetic lines of force. This forms the basis of transmission lines in space. For plasma immersed in strong magnetic fields, electric currents tend to flow along the magnetic field lines, which act like wires guiding the current. These currents are known as 'Birkeland currents' in plasma cosmology. One of the most compelling pieces of evidence for the existence of Birkeland currents came from the discovery of faint super cluster-scale radio emissions at 326 MHz between the Coma cluster of galaxies and the Abell 1367 cluster.²

In magnetic plasma or magma, electric fields aligned along the magnetic field direction freely accelerate charged particles. Electrons and ions are accelerated in opposite directions, giving rise to a current along the magnetic field lines. On some clear nights, in the Arctic and Antarctic regions, the sky is filled with undulating sheets of luminescent colors that move and dance called 'auroras.' It is the visible manifestation of huge, invisible electric currents plunging into the Earth's atmosphere—guided by magnetic lines of force. The aurora is a natural magnetic plasma light show comprising standard particles.

Unique Structures in Magma

While all matter is subject to gravitational forces, the positive ions, and the negative electrons react strongly to electromagnetic forces. Because of this strong interaction with electromagnetism, plasma displays a complexity in structure that far exceeds that found in gases, liquids and solids.

Cells and Sheaths

One of the unique characteristics of space plasma, revealed by satellites and space probes, is its tendency to form sharp boundaries between plasma with different properties. Plasma with different properties have a tendency to separate and form 'cells,' with electrified 'sheaths' around them. This allows the generation of electric fields in space (for example, when plasma of different polarities separate forming a kind of battery with positive and negative terminals). This can drive electric currents over very large distances. This is similar to low pressure and high pressure areas on Earth which cause winds to blow over long distances over the planet. The cellular structure of plasma can be seen clearly in the granulation of the Sun.

Filaments and Helical (or Spiral) Formations

Wherever charged particles flow in a neutralizing medium, such as free electrons in a background of ions, the charged particle flow or current produces rings of magnetic field lines around the current, pinching the plasma into multi-filamentary strands of conduction currents. These filaments can

be found in laboratory plasma and abound in cosmic plasma.

The Cosmos is a vast, interconnected body of invisible magnetic fields guiding almost invisible electrified streams of charged particles that become visible only where they converge (or pinch) to spin out galaxies and stars. 'Computer simulations have been telling us for several years that most of the "missing" gas in the universe should be in hot filaments,' said Smita Mathur, an Ohio State University researcher. 'Most of those filaments are too faint to see, but it looks like we are finally finding their shadows.' At cosmic scales, scientists have now confirmed that filaments exist between stars.

Super Magma Universes

The physical world is only a small part of the entire spectrum of matter. It is the most dense, most concrete of a series of worlds ranging from the extremely tenuous 'superphysical' to the solid physical. This is an idea found in ancient Egyptian mysteries, Hinduism and Buddhism.

Shirley Nicholson, 1977

Commenting on Charles Leadbeater's book, 'Inner Life' ³

Professor Parker, speaking at the 2004 Institute of Physics Nuclear Physics Conference in Edinburgh, UK, said, 'The universe as we know it is just a tiny part of the Cosmos.' This statement will not surprise any metaphysicist. It is a fundamental fact in metaphysics that there are multiple super and mirror universes. According to the metaphysical literature, as we move-up super universes, we will find more energetic particles, with higher frequency, mass or spin. The higher energy allows particles to break free into their constituents. As more and more energy becomes available, molecules overcome binding energies and break-up into atoms. Unlike the physical universe, the objects in these universes are therefore generally not composed of molecules. When more energy is available, atoms break-up into sub-atomic particles to form plasma. Super particles have higher mass, energy and frequency than their physical counterparts—described under the Standard Model used by physicists. They form super plasma in higher energy universes.

Based on descriptions in the metaphysical literature which will follow in later chapters, structures found in standard magma also abound in super universes and in our invisible bodies. This provides evidence that higher energy super universes and the bodies that inhabit them are substantially composed of magma. In fact, this will explain many of the features,

descriptions and behavior of the 'subtle bodies' described by experimental metaphysicists all over the world and in ancient scriptures. Leadbeater says that on higher planes, everything is what down here we would call luminous (in other words it emits light—like plasma,) and above a certain level everything may be said to be permeated by fire. 'Try to think of a fire which does not burn, but is in a liquid form, something like water,' he says. 'All astral matter is in itself luminous, though an astral body is a sphere of living fire.'⁴ A liquid fire is a perfect description of plasma. Dark bodies include the luminous etheric body in its crystalline state, the fiery astral body in its liquid state and the luminous causal body in its crystalline state. These bodies are composed of super particles in a plasma state confined by magnetic fields—in other words 'super magnetic plasma' bodies or simply 'super magma bodies.'

According to Anthony Peratt, electrons passing through space are captured by the Earth's magnetic field and follow spiral tracks about the lines of force.⁵ Helical and spiral structures evidence twisted magnetic lines of force and are common in cosmic magnetic plasma. They have also been described in the metaphysical literature. The helical path of charged qi particles when entering the chakra at the top of the head or from below is often depicted in Taoist or Qigong illustrations.

Electromagnetic Universes

The higher energy universes and our universe are increasingly being considered parts of an 'electric' or 'electromagnetic' multiverse. The magma universe, which abounds in electrical and magnetic fields, is an electromagnetic universe.

Even the concept of 'mass' is now being explained through the interaction of electric charges in matter with the zero point field. Bernhard Haisch says that there is no such thing as mass—only electric charge and energy, which together create the illusion of mass. 'The physical universe is made up of mass-less electric charges immersed in a vast, energetic, all-pervasive electromagnetic field. It is the interaction of those charges and the electromagnetic field that creates the appearance of mass.'⁶

In other words, Haisch explains, the book you now hold in your hands is, strictly speaking, mass-less—it is physically nothing more than a collection of electric charges embedded in a universal energetic electromagnetic field and acted on by the field in such a way as to make you think the book has mass. Its apparent weight and solidity arise from the interactions of the charges in your body with the pervasive field.



Super Magma Electromagnetic Bodies

If there is a physical body, there is also a spiritual body.

‘Saint’ Paul ¹

If the universe consists of 1% visible and 99% invisible matter, it would be surprising if our body (in its totality) is not composed of both visible and invisible matter and energy. In fact, if it was not, we would need a good explanation for that!

Every student of Occultism* is familiar with the fact that man possesses several bodies or vehicles through which he is enabled to express himself on the various planes of nature—physical, astral, mental and so forth.

Arthur E Powell ²

*Occult simply means ‘hidden.’ Before Newton, the gravitational force was considered occult because it was an invisible force. In fact, dark matter, by the same definition, can be considered ‘occult matter.’ We will not be using this word, however, as the word seems archaic and has other connotations which are not relevant here. According to traditional metaphysical theories (found in almost every major religion), the ordinarily visible physical body is

accompanied by at least seven other invisible bodies. These invisible bodies are generally described as 'subtle' bodies in metaphysical literature because they interact only weakly with our universe. In the current context, they can be called 'dark' bodies—i.e. bodies which we own and operate but are currently not ordinarily visible to most of us, and consisting of highly energetic or massive particles.

It was quite common earlier in the 1900s for the 'Theosophists' to describe these dark or subtle bodies as 'clouds' or 'atmospheres' surrounding (and interpenetrating) our ordinarily visible bodies. Dark bodies, seers say, appear as diffused clouds around the ordinarily visible biomolecular bodies. If a person suspends his prejudices and tries to observe these clouds using a relaxed gaze—over time these diffused clouds gradually become more definite and exhibit specific features and colors. These clouds are also sometimes called 'auras.' This description of clouds surrounding the biomolecular body parallels descriptions of dark matter clouds surrounding galaxies by leading scientific researcher on dark matter, Vera Rubin. She says that dark matter is spread out around the galaxy, reaching beyond the visible galactic edge and bulging above and below the otherwise flattened, luminous galactic disk.

Try to envision a typical spiral galaxy, such as our Milky Way, as a relatively flat, glowing disk embedded in a spherical halo of invisible material—almost like an extremely diffused cloud.

Vera Rubin ³

The notion that there is a subtle field of energy around the human body, a halo-like envelope of light that exists just beyond normal human perception, can be found in many ancient traditions.

Michael Talbot ⁴

In their book *Future Science*, John White and parapsychologist Stanley Krippner list 97 different cultures that refer to the aura with 97 different names. Just as our galaxy is embedded in a spherical halo (as pointed out by Vera Rubin, above) our invisible dark bodies are embedded inside an almost transparent energetic ovoid or bubble.

Invisible, dark or subtle bodies are composed of dark matter which congregates and densifies within and around our visible biomolecular bodies. In almost every culture, these bodies have been observed by some and the knowledge about them have been passed down from one generation to

another, and documented in religious and metaphysical literature. Barbara Brennan calls these bodies, collectively, the 'human energy field.' According to Brennan, the human energy field is composed of seven levels which extends further and further out from the ordinarily visible body and pulsates at an increasing frequency. All of these levels influence and interact with each other as if they were one body. She also says that these bodies are composed of plasma and holographically influence each other.⁵ Each body is a frame of reference associated with a particular universe in which 'experiences' or 'events' take place. The higher energies of super particles allow them to break free of binding energies which lower energy standard particles are susceptible to. Hence, higher energy bodies are generally of the nature of plasma composed of higher energy particles rather than molecular-based compounds that make up the low-energy physical-bio-molecular body that is ordinarily visible in our universe. Sylvan Muldoon and Hereward Carrington also report that the common belief is that it (the etheric and astral bodies) is not unlike matter—the difference being only in 'the arrangement of its atoms.'⁶ This hints at the possibility that the particles were not arranged as in molecules but as in plasma.

The idea of a coherent plasma body surrounding and interacting with biological organisms was first proposed in 1944 by V S Grischenko, a physicist and engineer. Also, Dr. Victor Inyushin, a biophysicist at Kirov State University in Alma-Ata, Kazakhstan, has been the leading theoretical spokesman for the biological plasma body. Like the visible human body, the bioplasmic body is thought to be relatively stable in varying environmental conditions—although it is particularly susceptible to electrical and magnetic perturbations.

To a metaphysicist, dark matter and energy is not much different from 'subtle matter and energy'—a term used frequently in metaphysical literature. The term 'subtle' used by metaphysicists is not much different from 'weakly interacting' used by physicists to describe the nature of interactions between ordinary and dark matter. Physicists say dark matter 'interacts weakly' with ordinarily visible matter. They could well have said that there are 'subtle interactions' between dark and ordinarily visible matter.

Subtle matter (in traditional metaphysical theories) is considered to be made up of highly energetic particles which only becomes visible after some training in meditation or similar exercises. For some people, this ability to see the subtle bodies of others and their own comes naturally by using the senses in their own dark or subtle bodies. Modern 'seers' were unanimous in their opinion that these bodies consist of as yet undiscovered matter and energy and have mass—long before any widespread awareness of dark matter or Superstring theories.

Density of Dark Bodies

Universal Density Profile of Dark Matter

In 1910 Leadbeater reported that the densest aggregation of astral (or dark) matter is within the periphery of the physical body of a man. Similarly, in the case of the Earth, the greater part of its astral (or dark) matter is gathered together within the limits of its ordinarily visible physical sphere. However, the astral body of the Earth as a whole, outside the physical, is enormously greater than when compared to a human being.⁷ Extrapolated to galaxies, we would expect that the proportion of the astral magmasphere outside an ordinarily visible galaxy to be enormously greater than in the case of an average person.

This is, in fact, supported by observations. A study using the Sloan Digital Sky Survey provides the most direct evidence yet that galaxies reside at the centre of giant, dark matter concentrations that may be 50 times larger than the visible galaxy itself! The 'lambda cold dark matter' model also supports the density profile observed by Leadbeater. This popular scientific model explains very well many large-scale structures in the Universe and predicts that dark matter rapidly increases in density towards the centre of a galaxy. Astrophysicists modeling the motion of dark matter say that each clump had a density that peaked in the centre and fell off toward the edges in the exact same way, independent of its size.⁸ Observations with the Chandra X-ray Observatory also support the cold dark model. To test the model, researchers used Chandra's sharp optics to measure the temperature and intensity of the hot, X-ray-emitting gas in a galaxy cluster some 4 billion light-years from Earth. The data obtained by John S Arabadjis and Mark W Bautz of the Massachusetts Institute of Technology, along with Gordon P Garmire of Pennsylvania State University in State College, found that the density is greater the closer it is to the centre of the cluster.

Fine Tuning

There are, however, some exceptions, which call for a fine-tuning of the cold dark matter theory. Ron Cowen points out that some observations hint that the distribution of dark matter in galaxy clusters is spherical rather than (American) football-shaped (ovoid), as the cold dark matter model suggests. Researchers, such as Christopher Kochanek of the Harvard-Smithsonian Centre for Astrophysics in Cambridge, Massachusetts, argue that many of the apparent points of conflict between theory and observations may vanish when cosmologists develop more sophisticated models for the complex effects that specific particles have on galaxy formation.

Dr James Bullock, Postdoctoral Fellow at Ohio State University, says that the distribution of dark matter in 'halos' around galaxies is expected to

vary significantly from object to object. The dark matter content of a galaxy, he says, might vary depending on its size, color, or whether it looks like a disk (like our Milky Way) or a spheroid (like the Virgo cluster galaxy M87).

Julio Navarro of the University of Victoria in British Columbia suspects that interactions between ordinary and dark matter underlie the variety of halo structures. 'There may be complex interactions ... that may lead to significant changes in the properties of the dark halo compared to the ones we would get if there was no galaxy there,' he says. Many galaxies, perhaps even our own, have a rotating bar of stars and gas at the centre. Some theorists have suggested that as such bars sweep away dark matter, they could thin it to different extents. That might account for the range of dark matter distributions seen.

Dark matter has been regarded by scientists as something that gives structure to ordinary matter so that the large-scale structures in the universe are formed. Many metaphysicists hold a similar view with regards to the effects of subtle matter and energy on physical matter. If the sweeping-bar scenario is right, however, then the tables are turned, at least near the centres of galaxies, where ordinary matter is calling the shots and pushing dark matter around. Taking the evidence as a whole, however, it appears that there is a co-operative process between dark and ordinarily visible matter in the construction of visible and invisible structures—which will be discussed in more detail later.

Particle Density

Mainstream Physics

One of the features of plasma is their low density, with inter-ion distances typically one hundred thousand times those in liquids and solids. Why is that so? Plasma consist of soups of similar particles with the same charge—hence the ions mutually repel, maintaining a low density dispersed structure held together only by external electrical and magnetic fields. This is unlike ordinary condensed matter (liquid or solid) which possess internal attractive interactions. For example, a hydrogen atom has a positive charge in the nucleus with a corresponding and neutralizing negative charge from an electron. Low density is also a feature of dark matter. 'Compared to anything that we are aware of on Earth,' says astronomer Virginia Trimble of the University of California Irvine, 'dark matter is "incredibly diffused".' This is an additional reason to believe that dark matter is in the state of plasma.

The particle density of our dark subtle bodies is known to be low based on the metaphysical literature. The low density of super magma bodies allow them to move through each other without colliding—like 'collisionless

plasma' in the Earth's plasmasphere. In the cold dark matter model used by scientists to study galaxy formation in a flat universe, dark matter is assumed to be cold and collisionless. Using Hubble Space Telescope images taken for earlier studies, Priyamvada Natarajan of Yale University looked at how nearby clusters of galaxies bend the light of distant galaxies. She contends that the findings rule out the idea that dark matter particles can collide and interact with one another.

However, observations by the Chandra X-ray Observatory suggest that by placing limits on the strength of the interaction between dark matter particles, if dark matter particles do collide, they do so relatively weakly. Furthermore, David Spergel of Princeton University says that Natarajan's findings do not rule out interactions, other than gravitational effects, among dark matter particles colliding at low speeds. Here, perhaps, we have a hint that electromagnetic effects in plasma may have a significant role to play when dark magma bodies make contact.

Metaphysical Literature

Robert Monroe observes that the 'Second Body' can penetrate walls. He concludes that 'anything that can interpenetrate a wall must have very little density,' although he says he has observed an initial resistance when the Second Body interpenetrates another object. He says this may be caused by some form of surface tension, which, once broken, permits the less dense mass to pass between the molecules of the wall. A body made of magma would have a natural tendency to form an electrified 'sheath' around itself—which will produce a 'surface tension' and the initial resistance that Robert Monroe observed. The low density implies, according to him, that the body has very little mass.⁹

Leadbeater reported around 1910 that astral bodies can and do constantly interpenetrate one another fully, without in the least injuring one another. People on the astral plane, according to him, can and do pass through one another constantly, and through fixed astral objects. When passing through another magma body for a short time, two astral bodies are not appreciably affected. (This echoes Chandra's observations, as noted above, whose results suggest that if dark matter particles do collide, they do so relatively weakly.)

However, if the interpenetration lasts for some time (in other words, when the magma bodies are moving at very slow speed or are stationary), Leadbeater says that they do affect one another as far as their rates of vibrations (or frequencies) are concerned.¹⁰ This is not surprising, as magma bodies are electromagnetic bodies. When two magma bodies pass through each other (at slow speed) there are electromagnetic effects. There could be

changes in frequencies and distributions of charges over the magma body, after prolonged interaction.

The ability of magma bodies to pass through other magma bodies is a characteristic of low-density magnetic plasma. Although these magma bodies can assume liquid and solid-crystal states (as will be explained in the next Chapter), these are relative terms. Leadbeater explains that astral matter is only relatively solid. The particles in the densest astral matter are further apart, relative to their size, than even gaseous particles. (As noted above, inter-ion distances in plasma are typically one hundred thousand times that of solids and liquids.) Hence, it is easier for two of the densest astral bodies to pass through each other than it would be for the lightest gas to diffuse itself in the air.¹¹

Particle densities decrease as we move up super universes. As a result, an object in a super universe has a lower total mass relative to its linked body in the physical universe. The converse is true when we go down the energy ladder—mass, energy and frequency of particles decrease but particle density and the total mass of bodies increase. According to Johannes Fisslinger when atoms combine into molecules, the vibratory rate (or frequency) decreases and (total) mass increases. From molecules; living cells, which have a lower vibratory rate (i.e. frequency) than atoms or molecules, form.¹²

Dark matter vs. Magnetic Plasma (Magma)

Magnetic plasma of different densities and other properties separate into different onion-like rings, with denser matter separating from the more tenuous matter—so does dark matter, based on studies of its density distribution in galaxies. Dark matter objects are supposed to pass right through each other, just like collisionless plasma. Dark matter is described as ‘diffused,’ just like plasma. All this indicates that dark matter (just like visible matter) is largely in the form of plasma. Hence, plasma cosmologists should consider not only the effects of visible plasma but invisible plasma in the architecture of the universe.

Plasmas are not just the ‘fourth state of matter’ – they are really the first state in modern cosmology, and they continue to be, by far, the dominant state of visible matter in the universe; perhaps also of invisible matter as well if so-called ‘dark matter’ continues to remain unobserved and unexplained.

Timothy Eastman,
President, Plasmas International

Weight of Dark Bodies

The term 'aura' is used in this book to mean only the visible radiation emanating from a dark or subtle body. Brennan uses the term to include the bodies themselves. According to Brennan 'aura' appears to have weight.¹³

Andrew Jackson Davis believed it to weigh about one ounce. Others say it does not weigh anything. However, being substance, the astral body must have some weight.

Sylvan Muldoon & Hereward Carrington, 1973 ¹⁴

Robert Monroe also believes that the 'Second Body' has weight and is subject to the gravitational force, although much less than the physical body.¹⁵ If aura has weight, it means it is subject to Earth's gravitational force. It also means it has mass. It can be sucked into a black hole or be drawn towards the (visible) Sun just as any other physical object would be. Remember that all universes (in the spectrum of universes under discussion) share the same gravitational field—this is consistent with 'M theory' (an over-arching Superstring theory which will be discussed briefly later in this book).

Although each particle in a higher frequency body may be more massive, the total mass of each body decreases because of the lower particle density as we move up the energy ladder. Hence, super magma bodies are very light compared to the dense biomolecular body (as noted by Muldoon and Carrington, above). At the highest energy levels the bodies are close to 'nothing.' Assuming a constant gravitational pull from the Earth, the physical-etheric body would be much lighter than the physical-biomolecular body. The astral body—even lighter—and lighter still the next body as we move up the energy ladder of super magma bodies.

Magnetism and Super Magma Bodies

In a famous scientific experiment conducted by Dr Bernard Grad, seeds were separated into two groups, differing only in the water with which each group was treated. At the end of several weeks, Grad discovered that plants watered with healer-treated water were of greater height and chlorophyll content. His experiment was repeated a number of times in the same laboratory and by other labs in the United States, with similar results. Grad was also successful in stimulating the growth rate of plants utilizing water treated with common magnets. Dr John Zimmerman, utilizing ultra-sensitive equipment, has detected weak but significant increases in the magnetic field emanations of healers' hands during the healing process.¹⁶ The magnetic fields in dark magma bodies are amplified when the density of the

plasma is increased through 'energetic practices' such as 'Qigong' or sitting meditation.

As demonstrated by Kirlian images taken by Dr Thelma Moss during her explorations into Soviet 'psychotronics' research during the 1970's, the presence of a magnet enhances and gives directional orientation to the usual aura effect, generating visible bluish tendrils of energy. This shows that the plasma in our super magma bodies are ordered and shaped by magnetic fields. This responsiveness to magnetism is further evidence that the subtle or dark bodies are composed of magma.

Magnetism has held a particular interest for 'energy practitioners' (both modern and ancient.) Bhagwan Shree Rajneesh, a modern mystic with a large following, believes that the body has its own magnetic force. This was why, he says, 'the ancient "holy man" was careful about which direction he would face when sleeping.' According to him, 'the holy man was always mindful to be properly aligned with the Earth's magnetic field, so that he is constantly magnetised by it.' According to Rajneesh, if you sleep at an angle to this force, you will weaken your body's magnetic field. Conversely, if you lie in the proper direction your body's magnetic field will be strengthened. He says that the stars too have magnetic forces. On special occasions certain stars are particularly magnetic. So if you are seated in a particular posture at a certain moment a particular star will cause your magma body to become especially magnetised.¹⁷

The last statement now becomes 'more believable' since we know that our dark magma bodies are highly susceptible to electromagnetic fields and that stars (including their super magma counterpart bodies) generate strong magnetic fields. Constellations of stars and clusters of galaxies could also affect the formation of super magma bodies on Earth through electromagnetic interventions—which in turn influences the formation of the physical-biomolecular body. Dr Yang Jwing-Ming reports that many Qigong practitioners claim that if they sleep with their head pointing north they sleep better, and feel more rested and balanced the next morning.¹⁸ The claims become understandable and relevant if we accept that magnetic fields are embedded in our magma bodies.

A strong bar magnet placed on top of another bar of non-magnetised iron can induce a magnetic field in the non-magnetised bar or make a weak magnetic field stronger. The Earth's (physical, astral and causal) magnetic fields when aligned with the human body's can serve to strengthen the (physical-etheric, astral and causal) bodies' magnetic fields, although the immediate effect on the physical-biomolecular body would be negligible.

Color and Magnetism

'Color therapy' has also fascinated many 'energy practitioners.' There is a relationship between color and magnetism. Physicists, Arthur Epstein and his colleagues at Ohio State University, have produced light-induced magnetisation in an organic material, tetra-cyano-ethylene. Blue light caused the magnetic field of the material to become 1.5 times stronger. Green light reversed the magnetism.¹⁹ In other words, the strength of the magnetic field can be 'tuned' with color. Potentially, different colored lights may be used to tune the magnetic fields of our magma bodies.

Electrical Aspects of Super Magma Bodies

Super Electricity

The electrical and magnetic properties of dark or subtle bodies have been reported by many experimental metaphysicists. This should come as no surprise as magma bodies are essentially electromagnetic bodies—not standard electromagnetism but super electromagnetism or super electricity—which human beings with active higher energy magma bodies can sense—at least some of them. In other words, it resembles electricity but because the current is caused by flows of charged super particles they also have other attributes not normally associated with standard electrons and protons in our universe. Leadbeater warns us that we must not confuse this (super) force with (standard) electricity, though in some ways it resembles it.²⁰

It has often been asked whether the Anu [or 'Ultimate Physical Atom'] is the electron. The answer is definitely, No. What it is remains to be determined.

Charles Leadbeater and Annie Besant, 1919 ²¹

Valerie Hunt does not believe that 'subtle energy' is purely electromagnetic in nature i.e. it is not the 'standard' electromagnetism which is found in our universe. 'We have a feeling that it is much more complex and without doubt composed of an as yet undiscovered energy,' she says. Psychics describe it as having a higher frequency or vibration than normal matter-energy. According to her, even ancient Hindu literature asserts that the energy body possesses a higher vibration (or frequency) than normal matter.²²

Many healers, seers and even those who have undergone near-death experiences, have noted that the effects of subtle energy entering and circulating in the meridians of the etheric double 'feels' electrical, but is certainly not the same as the electricity that flows through electrical appliances or bioelectricity commonly associated with the heart, brain or skin. These

'electrons' associated with subtle energy are super particles. The super electricity or 'selectricity' has been described as 'qi' and 'prana' by the Chinese and Indians, respectively. Robert Monroe says that the relationship between the Second Body (the etheric double) and electricity and electromagnetic fields is quite significant. He gives two accounts of his experiences with the electrical nature of the 'Second Body.'

In one experiment he was in a charged Faraday cage. He attempted to move through the cage but although he got out of the physical-biomolecular body without much difficulty he seemed to be entangled in a large bag made of flexible wire. When he tried to push through the bag he could not go through it. He says he struggled like a trapped animal in a snare and finally went back to the physical-biomolecular body. According to Monroe, it was evidently not the wire itself, but the electrical field pattern set up in fundamentally the same shape as the cage, but more flexible that restricted him. He suggested that maybe this could be the basis for an electromagnetic 'ghost catcher!'

Monroe cited another experiment in which he floated over the sidewalk where there were power primaries containing fairly high voltage electric current. It seemed to him that his Second Body was attracted and guided by these power lines. He asks, 'Do electrical fields attract this Second Body? Is this the medium through which it travels?'²³ We have already discussed the fact that in magma, charged particles are accelerated by electric fields along Birkeland currents and guided by magnetic fields. The plasma environments of the various super universes (identified in metaphysics) are in fact electromagnetic mediums.

The motion of super magma bodies may be directed by Birkeland currents which serve as 'electromagnetic highways' in the plasma. In other words, when an astral body 'flies off' to another location, it moves along Birkeland currents—although not consciously doing so. It is analogous to the passage of a charged particle being directed by a magnetic field line or an electric train being guided by a single rail using magnetic levitation. By changing electrical and magnetic polarities and the strength and distribution of charges in the body through an act of will, electromagnetic super magma bodies are able to travel rapidly from one location to another. In this way, it would appear to the traveller that he is moving by thought alone.

Effects of Electromagnetic Fields on Magma Bodies

Hunt conducted experiments on the energy fields of subjects confined to a shielded room, where the level of electromagnetism in the atmosphere can be altered without changing the gravitational force or oxygen levels. Subjects gave a continuous audio report of what they were feeling. Simultaneously,

an 'auric reader' observed the 'auras' of the subjects.²⁴ The energy field studied was most probably the electromagnetic etheric-double—the lowest frequency magma body. Dark matter interacts only weakly with the physical universe. Nevertheless, sympathetic resonance and induction (which will be discussed in a later chapter) allows interactions between the visible and dark universes.

Hunt found that when the electrical aspect of the atmosphere in the room in the experiment was withdrawn, the auric fields became disorganised, scattered and incoherent. Sensory feedback was so impaired that subjects were totally unaware of the location of their bodies in space. The subjects burst into tears and sobbed, although they reported that they were not sad, their bodies responded as if they were threatened, as they might be if the electromagnetic environment which nourished them was gone. Any sense of body boundary was absent. The aura readers described the energy as no longer flowing; but rather as jumping between people and 'chakras' (the latter are vortexes in subtle bodies, which will be described in more detail in Chapter 9). Inside, she saw energy flowing in an extensive mesh network described as a fishnet energy flow that did not correspond with meridian pathways. When the electrical field of the room was increased beyond the usual level, the auric fields were restored to normalcy.

On the other hand, if the electrical aspect of the room remained normal but the magnetism was decreased, motor coordination deteriorated. Subjects could not balance their bodies; they had difficulty touching finger to nose or performing simple coordinated movements. When the magnetic field was increased beyond the normal state, subjects could stand easily on one foot, even on tiptoes, or lean to previously impossible angles without falling. Motor coordination had somehow improved.²⁵

Hunt's experiments show that any disturbance to the electromagnetic fields generated by super magma bodies can cause a loss of the bodies' boundaries—evidencing that electromagnetic fields are confinement mechanisms that keep the plasma within the specific boundaries of our super magma bodies.

Sunspots and Magnetic Storms

Dr Yang Jwing-Ming says that magnetic storms and sunspot outbreaks affect energy patterns in the human body. He also says that the energy from the Sun has a more significant effect than energy from Earth.²⁶ Harold Burr made an analysis of the changing potentials of trees and sunspot activity as recorded in Zurich, Switzerland. He found the correlation between the two sets of measurements extraordinary. As sunspot numbers increased, voltage gradients in the trees increased. When sun spot numbers decreased, there

was a corresponding decrease in the voltage gradients in the trees.

Magnetic fields penetrate just about anything that does not have high iron content, including buildings and the human body. The human physical-biomolecular body has a magnetic permeability almost identical to that of air. Magnetic fields are therefore deeply absorbed in their entirety by our bodies and can exert a force on the blood's ions or electrolytes.²⁷

Cycles

According to Burr, records show that the 'L-fields' of trees vary not only with sunlight and darkness but also with cycles of the Moon, with magnetic storms and with sunspots. If such extra-terrestrial forces can influence the relatively simple L-fields of trees we would expect them to have an even greater influence on the more complex L-fields of men and women; and there is evidence that they do, he says.²⁸

According to Dr Yang, since we are part of the Earth's electromagnetic field, our own fields are affected by variations in the Earth's energy field. These variations can be caused by such sources as the Moon, the Sun, or even the stars.²⁹

The most obvious cycle we are exposed to is the diurnal cycle. Every 24 hours our bodies go through a cycle as the Earth rotates around its axis. Another cycle is generated by the Moon's influence on the Earth, as the Moon revolves around the Earth every 28 days. Just as the (physical) Moon and the Sun cause high tides in Earth's oceans, it also causes tides in Earth's astral and causal magmaspheres (which will be discussed later). Due to the tilt of the Earth's axis, the Sun moves higher and lower during the year generating an annual cycle and seasonal variations. The Chinese believe that the Earth and human beings go through other cycles every twelve and sixty years because of the influence of the stars.³⁰

Acoustic Waves within Super Magma Bodies

Ulf Torkelsson, Lecturer at the Department of Physics of Göteborg University (Gothenburg, Sweden), explains that in an ordinary gas there are only sound waves generated by the oscillations in the pressure of the gas. In magnetic plasma, however, we get a new type of wave called an 'Alfvén wave.' Alfvén waves can be thought of as vibrations in the magnetic field lines in plasma. The effect of the magnetic force is similar to the tension in a guitar string. If you start to shake a field line the magnetic force will attempt to restore the field line to its original position. However, the force, in attempting to restore equilibrium, will usually repel the field line too far, so a vibration results, generating an Alfvén wave that propagates along the field line. Alfvén waves are transverse waves, that is, they oscillate in a

plane perpendicular to the direction of propagation of the wave.³¹ Transverse standing waves are generated by the strings of all stringed instruments (including pianos, harps, guitars, etc.).

According to Barbara Brennan, the etheric body consists of a definite structure of lines of force and sparks of bluish-white light move along its energy lines.³² Since there is magnetic tension along field lines, these lines behave as strings under tension (like the strings in a guitar, violin or piano). When interacting with magma bodies (particularly in the crystalline state) therefore, a tone may be heard due to the vibrations of the magnetic field lines in the magma body. The magnetic field in a magma body can therefore operate as a musical instrument. According to Brennan, the seventh level (the lower Causal Body in its crystalline state) is like a standing light wave of intricate shape and form, vibrating at an extremely high rate. She also says that if she meditated on the form a sound could be heard.³³

Is it Sound?

Leadbeater says that in astral life people often think that they are playing on astral musical instruments; but in reality they are only making vibrations by their thought, which produces the effect of sound. 'Sound in the ordinary sense of the word is not possible in the astral world,' he says.³⁴ His description suggests the behavior of acoustic waves in magnetic plasma. According to Wayne Hu, the oscillations of compression and expansion of Alfvén waves within plasma are very much like the sound waves that fill the body of an acoustic guitar when a string is plucked.³⁵ They are very similar, but not the same—as what Leadbeater was trying to explain around 1910! The sound that Brennan hears is caused by the vibrations of the magnetic field lines frozen into super magma bodies. The vibration itself may be caused by the incessant spinning and pulsations of the chakras and other electromagnetic activities that go on within magma bodies.

Leadbeater observes that each magma body has an average tone—a combination of all the vibrations of the ovoid. According to him, the individual tones from each body or the nuclei of these bodies generate a chord which establishes the 'name' of the individual.³⁶ With mobile phone technology now familiar to most people, we may describe it as the mobile 'number' of the individual—when expressed in frequencies and numbers. This allows some people to send their prayers or thoughts specifically to another person, with accuracy as good as that available in a mobile phone communications network. Since magma is a strong radiator of electromagnetic waves, this chord (or the composite frequency) of the individual is constantly being broadcast across the local multiverse. (According to Science, electromagnetic waves propagate to infinite distances.)



Liquid-Crystal Magma Bodies & Q-Balls

Complex Plasmas

Complex plasmas contain positive ions, negative electrons, neutral particles and relatively larger artificial globules. These artificial globules, which are often called 'micro-particles' in complex plasma experiments, are introduced into the plasma so that scientists can study how they behave as they are larger and hence more easily observed than microscopic electrons or positive ions. Electrons are lighter than positive ions so they are more mobile and more of them fill up the artificial globules. Hence, there is a net negative charge in the artificial globules, effectively making the globules behave like large or more massive electrons (analogous to super particles). There is an opposite, net positive charge in the surrounding environment. Scientists then use electromagnetic fields to manipulate these globules to see how they behave.

Liquid-Crystal Complex Plasmas

In 1994 scientists found that complex plasmas can switch back and forth between a liquid and crystalline state like liquid-crystal.¹ Liquid-crystals occupy a state of matter intermediate between the solid-crystal state of matter and the liquid state of matter. Some have described it as a new state of matter. According to Gregor Morfill and his colleagues who presented their

scientific paper on 'A review of liquid and crystalline plasmas—new physical states of matter?', liquid and crystalline phases can be formed in complex plasmas because of the strong electrical interactions between the globules in the complex plasma.² In separate experiments, G Gozadinos and his colleagues confirmed this. According to them, a complex or 'dusty' plasma may undergo phase transitions and condense to form 'liquid plasmas' and 'plasma crystals' because of the electrostatic interaction potential between the globules and confinement by the electric field.³

Artificial Globules and the 'Anu'

In Hindu metaphysics, the 'anu' is described as a physical atom and 'param-anu' is described as a super-physical particle. Leadbeater calls these 'anu' the 'ultimate physical atom' or UPA. He uses the word 'ultimate' to denote the fact that any further breakdown of the anu will result in particles that do not belong to our low-energy physical universe, but a higher-energy universe that metaphysicists have called the 'astral universe'.⁴

According to Leadbeater and Besant, a positive and a negative anu, when brought near to each other, attract each other; and then commence to revolve around each other; forming a neutral arrangement. These neutral arrangements are relatively stable. Combinations of three or more anu are positive, negative or neutral; according to the internal arrangement. Stephen Phillips, a theoretical physicist who has studied Leadbeater's and Besant's work in detail, says that the positive and negative types of anu have opposite magnetic polarity. In the former 'force comes out'; in the latter it 'disappears.' According to Phillips, this observation is consistent with the elementary idea of north and south magnetic poles as sources and sinks of magnetic fields.⁵

Spin

Both anu and globules in complex plasmas spin. Morfill and his colleagues experimenting with liquid and crystalline plasmas say that a qualitative analysis relating to the influence of a strong magnetic field on the state of complex dusty plasmas indicates that the dust shape asymmetry, together with the presence of plasma charging flux, creates an angular momentum flux on the globule causing its rotation or spin.⁶ Leadbeater and Besant observed that the anu had three proper motions: It turns incessantly upon its own axis, spinning like a top; it describes a small circle with its axis (i.e. it 'precesses'—like the Earth); and it has a regular pulsation.⁷

Influence of Electric Fields

Anu appear to interact with electric fields in the same way that globules do. An electric current brought to bear upon the anu retards its motions. When exposed to an electric current, the anu arrange themselves in parallel rows of 'particle chains'—just like globules in complex plasma. A paper presented by A Piel and his colleagues provides an image which shows the globules arranged in parallel rows ⁸—exactly as Leadbeater and Besant depicted in their diagram—published in their book 'Occult Chemistry in 1919!'⁹ A Piel and his colleagues call these arrangements 'particle chains.'

Artificial Globules and the 'Ganu'

A group of anu will be designated with the term 'ganu' in this book. There are also remarkable correlations in the behavior of ganu and artificial globules in complex plasma experiments. Each ganu, just like a globule, consists of a group of positively and negatively charged particles—usually one outnumbering the other so that there is a net positive or negative charge. Each ganu, just like a globule, is contained within a spherical wall.¹⁰ Besides a net electric charge, ganu may also have a net magnetic polarity—depending on their composition of anu—just like a globule. Phillips is convinced that ganu are quarks and anu are sub-quarks, based on Leadbeater's and Besant's observations.¹¹ Quarks create everyday particles like protons by sticking together in packets of two's and three's.

Qions

According to Leadbeater, 'the anu gather around themselves six other anu to form a globule of vibrating energy.'¹² We will call this group of anu a 'qion.' A qion is a type of ganu—since it is a group of anu. Being a ganu, it behaves in a similar fashion to artificial globules in complex plasmas. The qion is a ganu of seven anu trapped by electromagnetic forces and which has a net electric charge and magnetic polarity. The configuration (1+6) of a qion, as described by Leadbeater, is stable. According to A Piel and his colleagues, plasma clusters with certain 'magic' numbers of particles represent particularly stable configurations, among them the system with 19 particles with the configuration: 1+6+12. The six-fold symmetry and the commensurate number of particles in the outer shell is responsible for the stability—according to the scientific team.¹³

Energy Depletion

William Zajc, from the 'PHENIX scientific collaboration,' explains that in a dense plasma environment, fast-moving quarks go through frequent interactions with other quarks and gluons which can sap their energy.

From the metaphysical perspective, this makes sense. The qion is a type of quark. Many metaphysicists have reported energy depletion in qions, including Leadbeater.

Leadbeater observes that the globule (or qion), once charged, remains as a sub-atomic element, and is not subject to any loss of force unless and until it is absorbed and used by some living creature. According to Leadbeater, as the different streams of atoms do their work, 'the "charge of vitality" is withdrawn from them, precisely as an electrical charge might be,' he says. The 'atoms' grow gradually paler as they are swept along the nerves. When the 'atoms' are emptied of their charge, they either enter into combinations with the body or pass out through the pores of the body or through the ordinary channels. When they are thrown out from the body through the pores—they generate what is called the 'health aura.'¹⁴

Are Qions and Ganu Quarks?

According to Madame Blavatsky, a metaphysicist, qions represent some of the highest energy etheric particles associated with the physical universe.¹⁵ (The physical-etheric state of matter will be discussed in more detail in later chapters. As the name 'physical' suggests, it is very close in terms of frequency and energy levels to our everyday visible physical world.)

Qions appear to behave like quarks—but are they quarks? Leadbeater and Besant thought they were observing the physical chemical atoms when they recorded their findings in their book 'Occult Chemistry.' They recorded that the hydrogen atom consists of a neutral cluster of six ganu. The cluster consisted of two sets of three ganu (or two 'triplets'). Each ganu, in turn, contained three anu—which are combinations of positive and negative anu. Similarly, other gross physical atoms also consist of clusters of ganu—that are arranged in triplets and doublets. Their book contains numerous examples.¹⁶

Stephen Phillips, however, appears to be at a loss to explain why Leadbeater and Besant saw this type of configuration.¹⁷ What Leadbeater and Besant saw (with their clairvoyant vision) were 6 ganu confined within a spherical wall. If the ganu were quarks this would mean seeing 6 quarks confined by a spherical wall. This is inconsistent with physicists' description of physical chemical atoms. In our universe, quarks are normally neatly packaged into neutrons and protons in atoms—3 quarks in each type of particle. This leads us to believe that qions are not types of quarks but types of super quarks or 'squarks'—particles predicted by Supersymmetry theory.

Squarks and Sleptons

According to scientists, squarks are the supersymmetric counterparts of quarks. According to metaphysicists, every standard physical atom has its super physical etheric counterpart—which means the same thing. What Leadbeater and Besant were observing appears to be the physical-etheric super counterparts of hydrogen and other elements—not the low-energy chemical atoms in the periodic table charted by Science. They observed ‘bags of squarks.’ Candidates for dark matter include point-like particles such as neutralinos predicted by Supersymmetry theory and extended objects such as ‘Q-balls.’ Q-balls are large bags of particles such as squarks and sleptons, which can be as big as particles we call atoms. Furthermore, there is a hint that Leadbeater may have used an ‘etheric lens’ to view the ‘atoms.’¹⁸

The ‘atoms’ observed by Leadbeater and Besant and illustrated in their book, ‘Occult Chemistry,’ were therefore neutral Q-balls—the supersymmetric objects identified by physicists and the physical-etheric particles of metaphysicists! Qions are charged Q-balls which are regularly absorbed by super magma bodies and transported within meridians to distribute energy throughout the body.

Q-balls

Q-balls can arise when certain types of condensates become unstable. The condensate will fragment into Q-balls which represent the true ground state. According to a paper on Q-balls by Tuomas Multam and Iiro Vilja, Q-balls with various charges were seen (in a computer simulation) to form from a condensate.¹⁹

Under Supersymmetry theory, Q-balls are believed to typically fuse, exchange charge, scatter elastically or pass through each other depending on the relative phase difference between them and the size of the balls. Larger balls are more likely to fuse in a collision (creating even larger balls) whereas smaller balls are more likely to scatter either elastically or while exchanging some of their charge. Collisions can alter the charge distribution of Q-balls quite significantly, provided that collisions are frequent enough. If the Q-balls are initially in the same phase, they typically fuse in a collision. The average size of a Q-ball then increases while their number decreases.²⁰ In other words, when Q-balls are ‘in-phase,’ they fuse to form more massive balls but the density of Q-balls decreases. Q-balls give rise to massive super particles, often the size of atoms in our universe, which cannot be detected by current scientific experiments. It may be because of this that Leadbeater and his contemporaries often refer to super particles as ‘atoms’—although they are not atoms in the way that we think of them.

Magma Bodies are Liquid-Crystal

Magma bodies regularly absorb Q-balls. The magma body is a complex plasma of both super point-like particles and extended objects such as Q-balls. Q-balls are analogous to the 'artificial globules' in complex plasmas. Since complex plasmas are liquid-crystal, magma bodies can alternate between liquid and crystalline states. An act of will can change the state of the magma body from liquid to the crystal state and vice-versa. An important feature of liquid-crystals is their tendency to reorient themselves when a voltage is placed across them. This gives the owner of the body control over the processes in the body through electromagnetic instructions and transactions. (This is similar to what happens in our physical-biomolecular body; which allows the brain to move the body by sending electro-chemical instructions to the muscles.) According to Paramahansa Yogananda, on (the physical) Earth a solid must be transformed into liquid through natural or chemical forces, but 'astral solids are changed into astral liquids, gases or energy solely and instantly by the will of the inhabitants.'²¹ In other words, the state of matter can be changed by an act of will.

Barbara Brennan observes an interesting dualistic pattern in the human energy field. Every other level is highly structured standing waves of light-like crystalline magma, while the levels in-between appear to be composed of colored fluids in constant motion-like liquid magma. Thus, the first, third, fifth and seventh levels all have definite structure, while the second, fourth and sixth are composed of fluid-like substances.²²

All subtle bodies which are composed of liquid-crystal magma can exist in two states—liquid or crystal states. Liquid states allow the expression and generation of emotions. Crystalline states allow the expression and generation of templates and concepts.

There are two levels of liquid-crystal alternations. The first is within the broad categories of Physical (broadly crystalline), Astral (broadly liquid) and Causal (broadly crystalline) bodies. After the Causal, it is meaningless to talk about personal bodies. Within these broad categories, we may add, there is a higher energy and (relatively) lower energy body—i.e. a higher and lower physical-etheric body, a higher and lower astral body; and a higher and lower causal body. Hence, there are six super magma bodies under this classification. Each of these six bodies can operate in both liquid and crystal states—making twelve states in all. The most 'fluidic' body would therefore be the astral body in its liquid state (i.e. the 'astral-emotional' body)—since it is 'liquid' both in its broad category and in its specific state. Hence, the astral body is also often called the 'emotional body' in the metaphysical literature. It allows for the expression of a wide variety of emotions.

Brennan includes the Causal Bodies described in this book as 'Spiritual Bodies.' Leadbeater equates the lower Causal Body in this book with the 'Mental Body.' This is just a difference in terminology—the underlying facts are the same. The descriptions of bodies as liquid (fluidic) or crystalline should be taken to be general descriptions. Bodies in their liquid state also have some embedded crystalline structures. Conversely, bodies in their crystalline states incorporate energy 'flows' in meridians—this is a liquid or fluidic action.



Quantum-Like Magma Bodies

As we move up super universes, we move up in frequency and energy levels. Particles become more massive but particle density falls. As particle density falls, the total mass of the body decreases.

Magma Bodies become Quantum-Like

de Broglie's Formula

According to physicist, de Broglie, all particles and bodies have both particle and wave characteristics. However, the wave-like properties (which accounts for a lot of the 'weird' and 'non-classical' behavior of quantum objects) is inversely related to mass according to de Broglie's formula. Hence, the fall in the total mass of a body, as we move up to super universes, will enhance the wave-like properties of these bodies and give them properties closer to quantum objects.

Sharing the same Quantum State

Condensates

When a group of particles are cooled to near absolute zero, they fall into the same quantum state—forming what are known as 'condensates' (specifically, in this case, 'Bose-Einstein condensates'). In a sense, a group of particles becomes a super particle and obeys the same quantum mechanical rules as a single particle. When disturbed by a laser, they move like a wave; rather than a solid object.

Q-Balls

When we go in the opposite direction—towards higher energies and temperatures we find Q-balls—according to Supersymmetry theory. In a proton there can be no more than three normal quarks, because they refuse to share their quantum state with another quark. But thousands of billions of squarks and sleptons can share the same quantum state in a tiny Q-ball no bigger than an atomic nucleus. Scientists calculate that dark-matter Q-balls must contain more than 10^{22} particles. A Q-ball containing 10^{30} particles would only be roughly 10 times the size of an iron nucleus, but its mass-energy would be many times that of the iron nucleus. If the particles in a Q-ball fall into the same quantum state, they would obey quantum mechanical rules in high temperatures—behaving in similar ways to condensates at low temperatures. Since super magma bodits are composed of Q-balls, they must have some quantum properties, particularly when Q-balls fall in-phase.

Collective Behavior of Particles in Plasma

The particles in magma exhibit collective behavior and magma mimics the properties of condensates. Ideal MHD (magneto-hydrodynamics) often treats plasma as having zero resistivity, which is very similar to superconduction arising in condensates. The interior of a neutron star, which contains plasma under extreme pressure and high temperature, will superconduct, just like a condensate at very low temperatures.

Macro-Quantum Bodies

The quantum properties of super magma bodies, which are composed of a complex plasma of Q-balls and other objects, will therefore become more pronounced and obvious as we move up to higher energy super universes. Magma bodies in super universes therefore range from semi-classical in the lower super universes to quantum in the higher super universes. Heisenberg's uncertainty principle will apply, for example, in determining the position and momentum of these bodies. Their measure of existence in spacetime would also be probabilistic.



Magma Bodies in A Multi-Dimensional Multiverse

Our bodies operate against the backdrop of the local multiverse. The etheric, astral and causal super universes are subsets of the local multiverse.

Space Dimensions Increase

As we move up super universes or move down to microscopic realms in our physical universe, the number of dimensions of space increases (the latter according to Superstring theories). The number of space dimensions increase from 3 in the physical universe to 4 in the astral universe; and to 5 in the causal universe. Hence, we move up into super space as we go up the energy ladder.

Increase in the Measure of Time

Time Dilation

The measure of time increases as we move up the energy ladder of super universes. What is perceived as the 'present' occupies a longer period than in the physical universe. A year in the physical universe may be perceived in a minute in a super universe. Furthermore, the minute in the super universe may encompass both the future and the past of the lower universe. In other words, time—instead of being point-like in our universe, encompasses more

and more events and becomes space-like as we move up the energy ladder. For example, it may take you an hour to walk an 8 kilometre stretch of road. Time passes slowly. On the other hand, if you are looking at a man walking the same stretch of road from the top floor of a tall building you can view all points on the road—covering the entire space of the journey, in a second's view. Furthermore, you will be able to view where the man walked from and where he will be walking to. As we move 'up' super universes, we will be looking 'down' from a higher vantage point.

In 1899 Leadbeater reported that on a very high plane the past, present and future are all existing simultaneously. He gives the analogy of a passenger in a train. The passenger, if he could never leave the train nor alter its pace, would probably consider the passing landscapes as necessarily successive and would be unable to conceive their coexistence (through direct perception).¹ Leadbeater apparently anticipated Einstein's 'block universe' concept and the relativity of simultaneity through his direct experience with super universes. Under Einstein's (Special) Theory—published in 1905, as one moved nearer to the speed of light, time dilates and space contracts to maintain the constant speed of light (in a vacuum). Our journey up super universes will be analogous to travelling closer and closer to the speed of light as the total mass of our macroscopic bodies fall.

Time Dilution

Since the number of space dimensions increases as we move up super universes but the time dimension does not, there would also appear to be a dilution in the effect of time on our consciousness. This dilutes the impact of the time dimension.

Interpenetrating Universes of Different Dimensions

Metaphysical theories state that the 3-dimensional physical (i.e. 3 space dimensions), 4-dimensional astral and 5-dimensional causal universes interpenetrate each other. How many dimensions an observer experiences depends on his sensory apparatus.

Limitations of Sensory Apparatus

Piaget noted that infants have only two-dimensional perception until after about 18 months from birth. In other words, we learn how to see in three dimensions after we are born. Can we learn how to see in four space dimensions? After millions of years, human beings have evolved color and three-dimensional perception. Would they evolve over the next few millions of years, four-dimensional perception? Could a small number of human beings now have such four-dimensional perception intermittently or under

special situations? Based on the arguments and evidence presented there is no reason to doubt that this could be the case. Perhaps, the limitations are not in the mathematical models (which suggest more dimensions) but in our everyday sensory apparatus (which is still undergoing evolutionary changes) and our measuring instruments—which, based on what we can perceive, are 3-dimensional objects made of standard particles. Somehow we are restricted by our current perceptual apparatus (i.e. sensory organs within our physical body composed of standard particles, together with our brains) to basically 3 space and 1 time dimensions. Michael Duff, a leading Superstring theorist, says ‘if our senses are to be trusted, we live in a world with three space and one time dimensions. However, the revival of the Kaluza-Klein idea, brought about by supergravity and superstrings, has warned us that this may be only an illusion.’²

These limitations have been reported by Leadbeater and many other metaphysicists many times. According to Leadbeater, physically we see only three dimensions—hence, we see all objects and beings only partially. Our lack of perceptive power, however, does not in any way affect the objects themselves. He said in 1910, ‘We find ourselves in the midst of a vast universe built of matter of varying degrees of tenuity, which exists in a space of (let us suppose) seven dimensions. But we find ourselves in possession of a consciousness which is capable of appreciating only three of those dimensions, and only matter of certain degrees of tenuity. For us, all matter of other and higher degrees is as if it did not exist. All dimensions beyond the three are also to us as though they did not exist.’³

What Leadbeater said in 1910 is exactly what physicists are concluding now: We live in a multi-dimensional multiverse but we can only perceive three space and one time dimension. Hence, to us the universe appears to be three-dimensional and extended in time. Hence, the observer and the observed universe cannot be separated. The 3d universe that we are familiar with is generated or framed by our perceptual apparatus at a point in time. Plato, in his famous cave allegory, compared the appearances of our world with (dark) shadows that are thrown on a cave wall by real objects. We, as cave dwellers, cannot see the real objects because we cannot look in their direction—we do not have that freedom. (Incidentally, dimensions are regarded as ‘degrees of freedom’ by physicists.) We see only the 2d shadows cast by ‘invisible’ 3d bodies. As such, most of the higher dimensional universe that we live in is generally concealed from us. However, objects in the larger universe warp the spacetime around us. They are, as it were, casting ‘shadows’ on our lower-dimensional universe. If we could see through the eyes of our higher-energy bodies—the astral or causal bodies, ‘dark matter’ would burst into colors that we could not imagine using only our physical

bodies. Professor Rubia, speaking at the 2004 Institute of Physics Nuclear Physics Conference in Edinburgh, UK, says that scientists are prepared for the possibility that dark matter might be impossible to detect, even with bigger devices. 'Then we have to sit down again and reconsider our theories about how the universe is built,' he said. (Of course, we could also take up meditation or some other similar exercises, both traditional and modern, which would allow us to use our own higher energy bodies to perceive what is invisible to our physical-biomolecular body—or at least pay attention to those who can.)

Try explaining to a being (say an animal) who has only black-and-white vision what red is. When we see with our astral bodies, as most human beings would after the death of the physical bodies, at least some of the dark matter will no longer be dark. So we can be sure that what Saint Paul says in the 'First Letter to the Corinthians' (in the Christian Bible) is true, 'for now we see through a glass, darkly; but then (we will see) face to face.' According to Leadbeater the whole astral world and the whole mental world (the latter is classified as the 'lower Causal' in this book) are both around us here and now, yet so long as our consciousness is focused in the physical brain we are blankly unconscious of them. According to him, when the physical bodies die, the locus of awareness is transferred to the astral body, and at once we find ourselves seeing the astral part of our world, having lost sight of the physical. When later on we lose the astral bodies in turn, and live in the causal body, we are then conscious of the causal part of our world, and would altogether lose sight of both the astral and the physical.⁴ Our magma bodies can only construct a world based on the frequencies it can receive.

Equivalence of Universes of Different Dimensions

Recently, scientists have found that two very different theories which are constructed using different numbers of space dimensions can be equivalent. Juan Maldacena first conjectured such a relation in 1997 for a 5 dimensional universe. It was later confirmed for many other universes with different numbers of dimensions by Edward Witten of the Institute for Advanced Study in Princeton, N J, and Steven Gubser, Igor Klebanov and Alexander Polyakov of Princeton University. Examples of this correspondence are now known for universes with a variety of dimensions.⁵

Jacob Bekenstein, a brilliant physicist, says that 'creatures living in one of these universes would be incapable of determining if they inhabited a 5d universe described by string theory or a 4d one described by a quantum field theory of point particles.' Bekenstein, however, believes that the structures of their brains might give them an overwhelming prejudice in favor of one description or another, in just the way that our brains construct

an innate perception that our universe has three spatial dimensions.⁶ The recent scientific findings provides a theoretical validation for a multidimensional multiverse, which appears as a 3d physical universe, a 4d astral universe or a 5d causal universe depending on which body's sensory systems and brain are being used.

Stuck Inside these Four Walls

In the last few years physicists have also realised that different Superstring theories are in fact limiting cases of a single, more powerful theory—known as 'M Theory.' According to M Theory, we live in a higher dimensional universe but are trapped within a lower dimensional 'membrane' (or 'brane,' for short). As a result, we are blocked-off from the rest of the multiverse. We interact with the rest of the multiverse mainly through the combined gravitational fields of all the universes or the multiverse.⁷

Physicists have spent a lot of time in the twentieth century trying to 'compactify' and 'curl-up' extra dimensions that we do not experience ever since the first powerful theory with more than 3 space dimensions was put forward early in the twentieth century—the Kaluza-Klein theory. Now, under M-theory, we are finally told by scientists that the reason why we do not perceive these dimensions is that we simply cannot see or measure them using our current scientific instruments. We do not interact with these extra dimensions. Perhaps, we are coming closer to a plausible explanation—an explanation which has been repeated many times by metaphysicists in the past. Many physicists generally take the view that the mathematics and physics has to be modified to conform to our experience. They rarely say that it is our experience that is limited by our sensory and scientific apparatus. Nevertheless, a change in mindset will inevitably take place within this century.

The physical-etheric universe, recognised by metaphysicists, is a 3-brane universe which is 'less than a millimetre' from our 'home' brane. Leadbeater described in the early 1900s of an astral universe which had 4 space dimensions. He said in 1904 that there are many characteristics of the astral world which agree with remarkable exactitude with a world of four (space) dimensions. He also said around 1910, 'Our minds can grasp three (space) dimensions only, whereas there are four (space) dimensions on the astral plane, and five on the lower causal plane.'⁸ He also gave many details about these branes (or 'planes' in the metaphysical literature) in his various books, which are now considered classics. In terms of mainstream physics, under M theory, we would say that the spacetime signature of the astral brane is 4s-1t (i.e. 4 space and 1 time dimensions). In other words it is an 'astral 4-brane.' The causal brane is 5s-1t. In other words, it is a 'causal

5-brane.’ We can observe the effects of gravitational fields emanating from the astral and causal universe in our universe. They shape and structure our universe—an observation often noted in the metaphysical literature.

According to ‘M theory’ the standard particles, of which we are familiar, are confined to our universe. All ordinary matter and energy must ‘stick’ to the surface of our 3-brane universe—like strings that need to be anchored to a surface. And we couldn’t explore the extra dimensions because ordinary matter and light were not allowed to go there. Our light, radio waves, magnetism, quarks, electrons, all operate only on the 3-brane. Gravity, though, can propagate as loops of string that don’t need a surface to stick to. So gravity can explore the extra-dimensional space.⁹ Super particles dominate other branes. Dark matter is the super matter of other branes that are invisible to most of us.

This observation accords well with metaphysical evidence. The super etheric, astral and causal particles are confined to their own universes. Nevertheless, it has been acknowledged by metaphysicists that astral matter, just like physical matter, is subject to gravitation. It is also in accordance with metaphysical evidence that we cannot experience extra dimensions unless we use a body composed of the relevant super particles and exercise the sensory systems associated with that body. Different bodies will enable the perception of light of different frequencies and particles of different sizes. Tom Siegfried says that physicists slowly began to realise that extra dimensions are invisible because our ‘light can’t go there.’ We wouldn’t be able to see them even if they were big.¹⁰ Many near-death experiencers and persons undergoing mystical visions have confirmed that the light is different in these different universes.

Nature of Light in Super Magma Universes

Raymond Moody says in his best-selling book, ‘Life after Life,’ that near-death experiencers describe the light during their experiences as being much brighter than anything experienced on Earth. But still, despite its brilliant intensity, it doesn’t hurt the eyes.¹¹ John Cramer says that our universe could, without our knowledge, be superimposed on another ‘shadow’ universe which has its own light and matter and even stars and planets and animal life which do not interact with ours except through their common gravitational attraction.¹² John Schwarz says that shadow matter would be essentially invisible to us because it wouldn’t interact with the kind of light that we are able to detect. However, it does interact with our gravity—it shares our gravity. We would notice it through its gravitational effects although we couldn’t see it with (our) light.¹³

Super Light

Dark-light or super-light is the counterpart of the light that we are familiar with—composed of super-photons. The existence of these types of subtle light has been recorded in religious and metaphysical literature over the centuries. Hundreds of references to this unusual light can be found in literature relating to near-death experiences and mystical visions; in the Bible and other scriptures. Each plane and sphere would have its own kind of light. The speed of each type of light particle may be different. It is postulated that the speed of light in each super universe is successively higher (relative to ours). It will set the speed limit for that universe and will be the same for all observers in that universe.

A photon in the astral universe may, therefore, behave as a tachyon from the perspective of our universe. (Tachyons are particles that move faster than the speed of light in our physical universe.) Since the energy and frequency of these tachyons are well beyond anything that our scientific instruments can now measure; even Cerenkov radiation, which would normally be given out if we assumed a tachyon with the same energy as a standard photon, would not be generated. It would pass through our universe as dark matter particles would.



Conscious Particles within Magma Bodies

In some strange way an electron or a photon [or any other elementary particle] seems to 'know' about changes in the environment and appears to respond accordingly.

Danah Zohar, Physicist ¹

A group at the Weizmann Institute in Israel has done a variation of the famous 'double-slit' experiment. Instead of using photons as in the earlier experiments, they used electrons and observed how the resultant interference pattern (which indicates wave-like properties of the particle) dissipates the more you watch the electrons as they go through the slits. As a wave the electron passes through both channels simultaneously; but if according to E Buks it 'senses' that it is being watched, the electron (as a particle) goes through only one path, diminishing the interference pattern.²

Elementary particles (such as photons and electrons) appear to possess a certain degree of 'intelligence.' Consciousness (which is associated with mind) appears to be as fundamental a property to elementary particles as properties that make it 'matter' or a 'physical force' (for example, mass, spin and charge). It is probable that different particles, however, have different degrees of consciousness—just as mass, spin and charge differ from one

particle to another. It logically follows that bodies composed of different types of particles would possess different degrees of consciousness.

Frequency and Consciousness

As we move up super universes, the mass, energy and frequency of particles increases. So does the mind-like quality of particles. Barbara Brennan says that the universal energy field is always associated with some form of consciousness, ranging from highly developed to very primitive. The highly developed consciousness is associated with 'higher vibrations' (i.e. higher frequency) and energy levels.³ Hence, we would expect the intrinsic degree of a single particle's consciousness to be higher, the higher the frequency. Arthur Powell reports, from various sources, that the vibrations (i.e. the frequency) of lower causal matter are as much more rapid than physical vibrations as vibrations of light are more rapid than those of sound.⁴ Lower causal matter moves with thought. Astral matter moves so quickly after thought that the ordinary observer can scarcely note any difference; ethereal matter does not obey thought as rapidly as does astral matter.⁵ In other words, the more 'subtle' the matter, the more 'mind-like' it is.

In some sense a rudimentary mind-like quality is present even at the level of particle physics. As we go to subtler levels this mind-like quality becomes stronger and more developed.

David Bohm, Physicist ⁶

The journey to microscopic realms in our universe is similar to the journey to higher energy (subtler) universes and particles in each successive higher-frequency universe are expected to have a higher degree of intrinsic consciousness. A single particle, when isolated does have some degree of consciousness. However, low-frequency elementary particles easily lose their consciousness when they become entangled with other particles and decoherence sets-in. A state of an extremely low degree of consciousness (for practical purposes—no consciousness) is exhibited by inanimate matter in a classical universe like our low frequency physical universe. However, when disentangled and isolated, particles regain their intrinsic consciousness.

Quantum Coherence and Consciousness

When quantum coherence is increased (for example, when certain events such as Bose-Einstein condensations take place or when quarks within a Q-ball fall into the same quantum state) groups of particles behave like single isolated particles or super particles—exhibiting the relevant degree

of consciousness associated with that super particle (condensate or Q-ball). Hence, if a group of low frequency particles fall into the same quantum state, a low degree of consciousness is exhibited. Conversely, if a group of high frequency particles fall into the same quantum state, a high degree of consciousness is exhibited. A Q-ball of etheric particles which are in the same quantum state will be less conscious than a Q-ball of astral particles.

As an analogy, we can consider that the atoms in a bar of iron are each a magnet. However, if they are not aligned among themselves within the bar of iron, no magnetism is felt. It is only when all the atoms in the bar are aligned that magnetism and a magnetic field manifests in the bar of iron. Hence, the inherent magnetic fields of the atoms apparently disappear when misaligned and manifest when aligned. Similarly, consciousness manifests more strongly when particles fall into the same quantum state—either in condensates or Q-balls. Danah Zohar says there is no reason to deny that any structure—biological or otherwise, that contained a (Bose-Einstein) condensate might possess the capacity for consciousness.⁷

Hence, elementary particles will exhibit their intrinsic degree of consciousness when isolated or when a group of particles share the same quantum state. This means that bulk matter in a non-coherent state is effectively unconscious.

Electromagnetism and Collective Behavior in Plasma

Super plasma, which are in fact soups of super particles held together by electromagnetic forces, exhibit collective behavior similar to living flocks of birds or schools of fish. This type of collective behavior is often described as 'swarm behavior.' As we move up to higher energy universes, the distinction between animate and inanimate also becomes increasingly meaningless. (For this reason, magma which is organised into life-forms is not described as 'biomagma' in this book. The prefix 'bio' is considered superfluous.)

A type of swarm behavior has been noted by Leadbeater. He observed floating masses of astral matter which were not properly organised into bodies and described their behavior as 'semi-intelligent.'⁸ It is quite appropriate for Leadbeater to call this type of behavior semi-intelligent—it is similar to the behavior exhibited by a computer-generated 'cellular automaton.' A cellular automaton can be generated in a computer and consists of a collection of units called cells, each of which can be in one of several states. Over time the cells change their states according to simple rules that depend on their states and those of the neighbouring cells. Even though each cell is influenced only by nearby cells, complicated global patterns can emerge. Just which local rules give rise to specific global patterns is a puzzle to scientists. Nevertheless, they give rise to group behav-

ior which resembles groups of life-forms.⁹

Responsiveness to Thoughts

Coherence increases in higher-energy universes due to the effects of strong electromagnetic forces within magma and the fact that quarks in Q-balls frequently fall into the same quantum state. Furthermore, depending on the phase relationship, Q-balls fuse to become larger Q-balls.¹⁰ Hence, these universes, with higher frequency particles and greater coherence, would appear to be more 'conscious' than our present one—reacting to our thoughts and emotions more rapidly.

In advanced higher energy super universes everything is conscious—making these universes seem like 'one big mind' to the visitor. The distinction between our private bodies and the public universe peters out; the boundary between the observer and the observed gradually evaporates; the boundary between the private world of the personality and the universe melts away; the distinction between an object and its universe melts. It logically follows that the feeling of interconnectedness and participation would increase as we move higher up on the multiverse's energy ladder. The individual's mind-matter merges with an ocean of mind-matter. At some point, there would be only mind (or consciousness, or information). In this state it would appear as a yogi might say: 'All are consciousness or ideas'—there would be no separate 'things' since there is an extremely high degree of interconnectedness. Paramahansa Yogananda says that a causal bodied being remains in the blissful realm of 'ideas' in the high frequency causal universe.¹¹ At some point in the higher causal universe, therefore, it would be meaningless to talk of 'personal bodies' which are separate from universes. Visitors to any of these universes get the impression that the universe is a 'subjective' rather than an 'objective' one—feeling like one big Self. In these 'conscious universes' all matter is animated. The environment becomes less and less differentiated from the mind of an individual. The inside and the outside merge as in the internal and external surfaces of a Klein bottle or a Möbius strip.

The thoughts of an observer easily mould the surrounding matter to a greater degree than in our universe. The observer cannot detach himself from what is being observed because he actively moulds his macroscopic environment and his own body quite quickly and in dramatic ways—giving rise to the phenomena of 'shape-shifting.' An interesting account of this animated matter is given by Leadbeater. He reports that there is a vast store of 'elemental essence' in the astral plane or sphere, extremely sensitive to the most fleeting human thought, responding with inconceivable delicacy, in an infinitesimal fraction of a second, to a vibration set up in it by an

entirely unconscious exercise of human will or desire. Our thoughts mould them into living forces or 'elementals'—as is known in the metaphysical literature. Their separate existence, however, is usually evanescent, for as soon as the thought impulse has worked itself out, it sinks back into the undifferentiated mass of elemental essence from which it came.

According to Leadbeater, a visitor to the astral world will be impressed by the ceaseless tide of this elemental essence, swirling around him and often menacing, but withdrawing before a determined effort of the will. An enormous army of entities are temporarily called out of this ocean into separate existence by our thoughts and feelings, whether good or evil. The elemental essence has no definite form when not affected by any outside influence. However, on the slightest disturbance, it flashes into a bewildering confusion of restless, ever-changing shapes, which form, rush about, and disappear with the rapidity of bubbles on the surface of boiling water. The evanescent shapes, though generally of living creatures do not express the existence of separate entities. They merely express the thought-stream which calls them into existence, though nearly always with some grotesque distortions, some terrifying or unpleasant aspect about them.¹²

David Bohm, a leading expert in twentieth century plasma physics, observed a similar behavior in his experience with one component non-neutral plasmas of electrons. In his experiments, he found to his amazement that once they were in plasma, electrons stopped behaving like individuals and started behaving as if they were a part of a larger and interconnected whole. Although the individual movements appeared random, vast numbers of electrons were able to produce effects that were surprisingly well-organised and appeared to behave like a life form. The plasma constantly regenerated itself and enclosed all impurities in a wall in the same way that a biological organism, like the unicellular amoeba, might encase a foreign substance in a cyst. So struck was Bohm by these organic qualities that he later remarked that he frequently had the impression that the electron sea was 'alive' and that plasma possesses some of the traits of living things.¹³

Matter is also responsive to thoughts in our universe, although it is less noticeable because elementary particles associated with our universe have a lower degree of consciousness, which is easily cancelled-out by the high degree of decoherence in our universe.

Respected scientific experiments in parapsychology using random number generators have been conducted which show that there is a slight distortion in the results due to the impact of thought in the physical universe. In experiments with quantum objects—such as photons and electrons, the impact of consciousness can be observed, for example, in the already cited 'double-slit experiments.' An electron wave manifests as a particle when it is

observed. Fred Alan Wolf says that quantum physics appears to be telling us that what we choose to observe alters, and even creates, what we observe.¹⁴

In the physical universe, this is not obvious. However, in the super astral and causal universes, the results can be dramatic. An experiment can be conducted to test the impact of mind even in the physical universe. For example, a group of experienced meditators can focus on the experimental setup in the double-slit experiment to, say, change the spin or mass of a particle—creating a new particle. As we move up to higher energy and higher frequency universes, universes become less matter-like and more mind-like, less classical and more quantum-like. Paramahansa Yogananda states that the difference between consciousness and matter is the rate of vibration (or frequency).¹⁵ In higher energy and higher frequency super universes, macroscopic quantum-like behavior is observed. ‘Shape-shifting’ occurs in a more dramatic fashion and the ‘concrete reality’ we are accustomed to would be rare.

Role of Conscious Particles in Super Magma Bodies

Specific Particles support Specific Mental and Emotional States

As described frequently in the metaphysical literature, each succeeding body consists of more energetic particles than the previous body and pulsates at a higher frequency. In order to experience certain mental states or emotions we need specific particles in our magma bodies to be in specific states (whether liquid or solid-crystal). This is analogous to the operation of mood-generating neurotransmitters (such as dopamine and serotonin) in our physical-biomolecular (or biochemical) bodies, which work in concert with our magma bodies.

I will not know that you are angry with me unless you show your anger. But you know it well in advance—you can feel it rising in your etheric body. Now this anger that has arisen has its own particles that come from the etheric body. If these particles do not come you cannot be angry.

Bhagwan Shree Rajneesh ¹⁶

Tibetan Yoga teaches the same. The concept of ‘minds’ and ‘winds’ apply in Tibetan Yoga. According to the teachings, as reported by Daniel Cozort, minds are inoperative without winds and winds lack specific direction without minds. Because winds are the medium for the operations of minds, fluctuation in the winds necessarily affects consciousness. The cessation of winds causes the cessation of the minds that rely on them.

Thus, as the coarser winds cease, so do the coarser types of minds, leaving only subtle winds and minds.¹⁷ These 'winds' are plasma winds (like the Sun's solar wind) but not of standard but super particles, within meridians or channels. The 'minds' are particular mental and emotional states. The types of winds (plasmas of different types of particles) determine the types of minds (mental and emotional states).

Body Composition and Karma

Every mental or emotional state is associated with specific states and particles or combinations of particles which enables the entity to experience the relevant subjective states. This would then mean that the composition of dark bodies from one entity to another would differ depending on what emotional or mental states he or she is generally occupied with. If a person is generally angry, those particles and state of matter that facilitated the experience of anger may dominate the composition and state of the relevant super magma body. If the person is preoccupied with sexual thoughts, the relevant particles associated with sexual moods would dominate the composition of the relevant body. Similarly—with other mental and emotional states. These may include jealousy, greed, fear, love etc.

There is some metaphysical evidence that emotions that are coupled with sensations in the lower energy biomolecular body—for example sexual emotions and anger—attract lower energy particles which pack more densely together in the astral body—just as they do in the biomolecular body. Hence, a preoccupation with these types of emotions tends to produce a denser astral body which gravitates to the Earth. The higher density and greater susceptibility to the gravitational force reduces mobility and produces the sensation of being bound. This has often been portrayed as being in 'chains,' prisons and dungeons in religious literature.

Through wrong belief, indulgence, negligence, passions and activities the individual self attracts particles of matter which are fit to turn into karma, as the self is actuated by passions. This influx of karma results in bondage.

Jain Scriptures ¹⁸

The particles that are attracted in response to specific mental and emotional states finally make up the mass of the body. These super particles are to the magma body what 'cells' are to the biomolecular body. The various particles and states produce bodies which may vary in color, density, size, brightness, contrast, definiteness (or sharpness) and other physical attributes. It follows then, that certain mental and emotional states may be

associated with higher energy bodies and others with lower energy bodies—each body associated with different types of particles. Hence, although mental states may be subjective, there are (relatively) objective correlates. This is no different from the changing colors in the images (which evidence neuronal activities) generated by a CAT scan of the brain while some subjective mental activity is going on. Each body is, therefore, the most concrete expression of what (Eastern) religious scriptures normally call ‘karma.’ How the various bodies interact with the various environments will result in the final outcomes.

Mahavir (the founder of Jainism, who lived during the same period as Siddhartha Gautama) has even defined karmas as material. If you are angry and you kill someone, it is an action of anger and murder. 2,500 years ago, Mahavir said that the subtle atoms of these actions cling to you as the scum of karmas and actions. Your actions ‘hold you like matter.’¹⁹

‘Manipulating Karma’

If our super magma bodies are in fact expressions of karma, it would make sense to look after their health and composition—just as we look after our biomolecular bodies. Eating fatty foods with high salt content can lead to heart diseases, strokes, high blood pressure and other ‘lifestyle diseases.’ These diseases cause profound suffering even while our locus of awareness is in our biomolecular body. Similarly, attracting high density astral matter can lead to suffering in the astral world (the world most human beings find themselves in after the death of their physical bodies). Looking after our magma bodies to that extent determines our future health and ‘wellness’ in super universes. This insight that material particles determine karma has profound consequences. To some extent, this means karma can be physically or mentally manipulated.

Michael Talbot reports that the Sufis believe imagination has a potent effect on the health and physical structure of our bodies. They also believe that one could use visualisation, in a process called ‘creative prayer,’ to alter and reshape the very fabric of one’s destiny.²⁰ No doubt they were using their imagination and visualisations to change the content of their memories to holographically restructure their invisible bodies. Swinney concludes that it is our ‘holographic perception’ that influences the dynamics of our brain’s and body’s chemistry, our self-hologram. In this perceptual hologram, he says, resides the fundamental basis of our structure and our sense of self and external environment, including our health and illness in both our physiological and psychological being. It is here, at this level of our being that fundamental healing and physical-psychic restructuring occurs.²¹ The same kind of restructuring may also

take place during near-death experiences.

Distributed Sensory Systems in Magma Bodies

The particles of the astral body in its liquid state are constantly in motion among themselves, like particles of flowing water. According to Leadbeater, it is quite impossible, therefore, for the astral body to possess specialized organs in the same sense as the physical body. The structure (morphology) may be deceptively similar, but the functions (physiology) are quite different since the electromagnetic super magma bodies operate using electromagnetism rather than biochemistry. Leadbeater argues that no doubt there is an exact counterpart in astral matter of the rods and cones which make up the retina of the biological eye; but the astral particles in which at one moment are occupying that particular position in the astral body may, a second or two later, be moving through the hands or the foot.

In the astral universe, we do not see by means of the astral counterpart of the physical eyes, nor do we hear with the astral counterpart of the physical ears. To be exact, it is not correct to apply the terms 'seeing' or 'hearing' to astral senses, since these terms are usually held to imply specialized sense-organs. What has been observed by Leadbeater is that every particle in the astral body is capable of receiving or transmitting vibrations from one of its own type, but its own type only. When a person activates the astral senses he may sometimes be surprised to see on all sides simultaneously, instead of only the front.²²

Barbara Brennan reports detailed structures corresponding to the physical-biomolecular body in super magma bodies—in addition to structures, such as chakras, found only in super magma bodies.²³ Nevertheless, the general correspondence of the astral body to the physical is merely superficial and a matter of external form, and does not at all involve any similarity of function in the various internal organs. The biomolecular and magma bodies are composed of very different types of matter. Kidneys and lungs make sense in a biomolecular body—not in an electromagnetic body. According to Brennan, the astral body in its liquid state appears as colored clouds of fine substance in continual fluid motion. According to Leadbeater, all the particles of the astral body are constantly flowing and swirling about like those of boiling water, all of them in turn pass through each chakra, so that each centre in its turn evokes in the particles the power of receptivity to a certain set of vibrations or the ability to tune into certain frequencies.²⁴ (Chakras are vortexes in magma bodies, which will be discussed in the next Chapter.)

This is similar to what happens in the biomolecular body. The subjective state of vision—for example 'seeing red' or 'seeing blue' can only take

place if the relevant cone cells exist on the retina of the eye of the biomolecular body. The different cells respond to different frequencies of light in the environment just as particles in magma bodies do. Different sensory systems in the biomolecular body respond to different frequencies—the eyes respond to much higher frequencies than the ears. Furthermore, all the sensory systems in the biomolecular body translate chemical stimuli into electro-chemical signals which is received and interpreted by the brain. The underlying sensory system in the biomolecular body is therefore an electro-chemical one. Hence, while there are differences, there are also many similarities between the sensory systems in the biomolecular and super magma bodies.

Recent scientific evidence shows that all the sensory systems in the biomolecular body operate as frequency analyzers. Various researchers contacted the renowned neurosurgeon Karl Pribram to tell him that they had uncovered evidence that the visual system worked as a kind of frequency analyzer. Herman von Helmholtz had shown that the ear was a frequency analyzer. More recent research revealed that our sense of smell seems to be based on what are called osmic frequencies. Single neurons in the motor cortex of the brain respond selectively to a limited bandwidth of frequencies.²⁵ Pribram confirmed that the visual cortex of cats and monkeys responded to a limited range of frequencies.²⁶ Russell DeValois and his colleagues also showed that the receptive fields in the neurons of the cortex were tuned to a very small range of frequencies. In his studies of both cats and humans, Campbell (at Cambridge) also demonstrated that neurons in the brain responded to a limited band of frequencies.

As the particles (which are tuned to different frequencies) are moving all the time in the astral body, all the astral senses are active equally in all parts of the body. Particles in every part of the astral body are capable of responding to stimuli in the ionised environment. Consequently, the astral being can see equally well the objects behind him, above him, and beneath him, without needing to turn his head. There appears to be no specialized or centralized sensory organs in the astral body.

Paramahansa Yogananda says that astral beings have all the outer sensory organs—ears, eyes, nose, tongue and skin—but they employ the ‘intuitive sense’ to experience sensations through any part of the body; they can see through the ear, or nose, or skin. They are able to hear through the eyes or tongue, and can taste through the ears or skin, and so forth.²⁷ Michael Talbot reports that twelfth-century Persian Sufis employed deep trancelike meditation to visit the ‘land where spirits dwell.’ They claimed that in this other realm one possesses a ‘subtle body’ and relies on senses that are not always associated with ‘specific organs’ in that body. Also, like

(Robert) Monroe, some near-death experiencers report being able to see in all directions at once, while in the 'disembodied' state—a 'three hundred and sixty degree' vision.²⁸

Leadbeater reiterates that although there are counterparts of the eyes, the nose and the mouth observed by various metaphysicists, the astral being does not see with those eyes, hear with those ears, smell with the nose or taste with the tongue. All the particles of the astral body are in constant and rapid motion—moving from one part of the body to another. The senses of the astral body do not act through special organs, but through every particle of the body. But every particle is not capable of receiving every possible impression. Different types of particles receive different frequencies.²⁹ The sensory systems in the causal bodies are similar to the astral bodies but are tuned to higher frequencies.

Particle Memory

Memory Capacity of an Atom

In 1959, physicist Richard Feynman pointed out that all the words written throughout the history of the world could be contained in a cube of material one tenth of a millimetre wide—provided those words were written with atoms. Now, scientists have done just that, creating an atomic-scale memory by using atoms of silicon in place of the 1s and 0s that computers use to store data. Scientists at the University of Wisconsin at Madison have been able to read and write at room temperature to a memory that uses a single atom to store a bit. An intriguing aspect of this work is that memory density is comparable to the way nature stores data in DNA molecules.^{30, 31}

How much information can an atom store? Scientists have written the word 'OPTICS' on a single atom, demonstrating the huge information capacity that exists even in an individual hydrogen atom. This was done by sending one of its electrons into a 'Rydberg state,' in which it no longer exists as a cloud of charge enshrouding the nucleus but instead becomes a 'wave packet' that circles the atomic nucleus like a planet around the Sun.

Applying a series of pulses a set of wave packets can be created that combine with each other like water waves and cancel each other out at specific places to form patterns around the atom, such as the word 'OPTICS,' in which points on each letter correspond to possible places for finding the electron after measurement. Carlos Stroud of the University of Rochester and Michael Noel of the University of Virginia point out that an electron in an $n=50$ Rydberg state has 2,500 possible states of angular momentum which can be combined in many ways. This evidences the enormous potential for even elementary particles to store and transport vast amounts of information.³²

Memory-Identity Particles in Super Magma Bodies

Each super magma body has a nucleus in its ovoid body—which Leadbeater and Besant call ‘permanent particles.’ Leadbeater calls the nucleus of the higher etheric double a ‘physical-etheric atom,’ the astral body the ‘astral atom’; and a ‘mental molecule’ in the causal body. Information about the relevant magma body (its composition, frequency and structure) and its experiences in the corresponding universe are stored or are linked to these nuclei—according to Leadbeater and Besant.³³ It is remarkable that Leadbeater and Besant could conceive of a particle having the ability to store or link up with vast amounts of information in 1910. David Bohm himself hinted at this only recently. He says that ‘a particle has a rich and complex inner structure which can respond to information and direct its self-motion accordingly.’³⁴

These nuclei in super magma bodies are analogous to DNA in the biomolecular body—which is sometimes called a ‘bioparticle’ in the medical literature; as it stores or links vast amounts of information about a particular life-form. The nuclei are transferred to higher energy bodies when lower energy bodies die—serving the same purposes as a ‘black box’ flight recorder in an airplane in preserving information about a particular life’s journey. Hindu metaphysics describes these nuclei as ‘bindus.’ According to Besant, the permanent particles are used to preserve within themselves as ‘powers of vibrations’ (i.e. different frequencies and waveforms) the results of all experiences through which they have passed. At the end of the life of the physical body, the physical-etheric permanent particle would have stored up ‘innumerable powers of vibration’ (i.e. a set of waveforms of different frequencies). The same process takes place in the case of the permanent particles of each of the other bodies.³⁵ As the particles (in super magma bodies) receive different frequencies, records are formed.

Can a person’s memory with all its visual, audio, tactile and other information be conveyed in a wave-particle? It is remarkable that however complicated a wave, it can be described as a combination of many simple sine waves of various frequencies and amplitudes. This is how an entire orchestra can be heard from the single vibrating cone of a loud speaker. When switched on and off at irregular intervals, or modulated in intensity or in frequency, waves can carry a large amount of information. The higher the frequency the greater the amount of information the wave may encode. The tinier the detail to be seen, the higher the frequency required. Storing memory in wave interference patterns is remarkably efficient, and would account for the vastness of human memory. Waves can hold unimaginable quantities of data. With holographic encoding of wave-interference patterns, all of the US Library of Congress, which contains virtually every book ever written

in English, would fit onto a large sugar cube. This suggests that the nuclei of the various magma bodies can carry complex holographic information about their corresponding bodies.

The idea that a three-dimensional form can be translated into a specific complex waveform has already been demonstrated by Hans Jenny. Once this is accepted then the concept of image transmission is possible.

Harry Oldfield and Roger Coghill ³⁶

A personality is simply a 'packet of self-organised information.' If this information can be transferred from one vehicle to another that personality 'lives' on. Information is stored in the nuclei of the various magma bodies. If a digital computer can store information with nothing more than '1's and '0's; particles with spin, mass and charge should be able to store much more information. If information is stored in the physical-etheric nucleus, the personality which was manifested in the physical universe would survive the death of the physical bodies. The physical-etheric nucleus enables the transfer of information from one body to another during the (physical) death process. If not for this transfer, the experiences in the physical-etheric plane may be difficult to access. The information about our self has to be 'uploaded' to another 'player' (i.e. body) to continue our personal existence.

Akashic Records and the Zero Point Field

According to Lynne McTaggart, if all subatomic matter in the universe is interacting constantly with the ambient ground-state 'zero energy field'; then we have to conclude that the subatomic waves of the quantum 'zero point field' are constantly imprinting a record of the shape of everything. As the harbinger and imprinter of all wavelengths and all frequencies, the field is a kind of shadow of the universe for all time, a mirror image and record of everything that ever was.³⁷ As was so often the case, Leadbeater had this idea much earlier. At the beginning of the twentieth century, he said determinedly, 'Every particle bears within it the impress of everything that has occurred in its neighbourhood. There is an affinity between any particle of matter and the record which contains its history. This affinity enables it to act as a kind of conductor between the record and the faculties of anyone who can read it.'³⁸

Records imprinted on the zero point field are usually called the 'Akashic' records by metaphysicists. Edgar Cayce, the clairvoyant, said the Akashic Records were 'to the mental world as the cinema is to the physical world.' According to Leadbeater, if an observer is not focusing on them, the

records simply form the background to whatever is going on. Under such conditions they merely reflect the mental activity of a greater consciousness on a far higher plane—which is accessible to us. We are in a sense living in a much larger ‘brain.’ It would be like watching a movie from a distance. As you move closer and focus on what is going on in a particular scene you are immediately in the scene, surrounded by all the characters.³⁹

The characters of course cannot see you. Neither can you change anything in the scene. You are merely an observer. In this way, causality cannot be violated. For example, you cannot get into the scene and kill your own grandfather so that you do not exist in the present. What you are seeing is in the past—and sometimes in the future (our past or future is relative to our frame of reference). Nevertheless, the rate at which ‘the story unfolds’ can be altered. Many meditators use the records for a practical reason: to review their own current and past lives to ensure that their personal objectives are met. Leadbeater however warns that the Akashic records must not be confused with mere man-made thought-forms, which exist in abundance in the astral and causal magmaspheres. He also warns that the body used to view these records can have a profound effect on its reliability. This is because these records are reflected from higher energy planes. If the view is from a body in a lower plane, for example, the astral body, the view could be less reliable than, say, from the causal body.⁴⁰

Non-Local Memory

Leadbeater also said around 1910 that the physical-etheric nucleus establishes a connection with our biomolecular brain cells, by means of which our mind is put ‘en rapport’ with particular portions of the Akashic records. The scenes which we pass through in the course of our life are captured and form part of the Akashic Records.⁴¹ In other words, memory is not located in the brain. The brain simply acts as a receiver and transmitter of memories embedded in the zero point field. Arthur Powell reports that the permanent particles are ‘merely nuclei which enable a Higher Self, through his “ray,” to come into touch with the various planes’⁴²—the ray acting much like the laser beam in a disc player which accesses different tracks on a digital video disc (each particle being analogous to a different track). When Wilder Penfield tapped on the neurons of his patient’s brains, generating a holographic memory, as was reported in various places ⁴³, he was accessing the Akashic records (via higher energy bodies) embedded in the zero point field. The Akashic records were, in a sense, ‘hyperlinked’ to the brain and could be accessed by ‘mouse-clicking’ on specific neurons (analogous to specific ‘icons’ on your Windows-based computer system).



Structures within Magma Bodies

Many of the structures found in magnetic plasma—as recorded in the scientific literature on plasma physics—have been observed by experimental metaphysicists—including Annie Besant, Charles Leadbeater, Barbara Brennan, Valerie Hunt and many others. Of course, some are also recorded in traditional scriptures and commentaries.

It should not be surprising that there could be elaborate and intricate structures in super magma bodies. Even in the low-energy biomolecular body, we have the heart (which is a sophisticated pump), a brain (which works somewhat like a highly advanced computer) and kidneys (which are sophisticated filters). Elaborate mechanical and biochemical processes abound in the biomolecular body. In the electromagnetic super magma bodies, we should not be surprised, therefore, to find elaborate electromagnetic structures—electrical circuits, magnetic fields and assemblies, dynamos, motors, turbines, lenses controlled by magnetic fields, electronic and photonic filters; and other highly sophisticated devices.

Magneto-hydrodynamics (MHD) in Magma Bodies

MHD studies the dynamics of fluids that conduct electricity—including their motions and interactions with magnetic fields. Examples of such fluids include plasma and liquid metals. The fluid outer core of the Earth is a huge MHD dynamo that generates the Earth's magnetic field through the motion

of charged particles in the molten rock. The magnetic fields of some planets and all stars are believed to be caused by fluid motion. Similarly, the magnetic field generated by a magma body is caused by the fluid motion of electrically charged particles in liquid bodies or in meridians in crystalline bodies. The motion generates a magnetic field, which confines the plasma, and a web of magnetic field lines which guides plasma flows.

The Web in Physics

Universal Filaments

According to plasma cosmology (pioneered by Nobel laureate Hannes Alfvén and Kristian Birkeland) as discussed earlier (in Chapter 3) electric currents carried in interstellar and intergalactic plasma give rise to the large-scale structure of the universe, including walls, sheets and filaments. According to Anthony Peratt, a variety of phenomena in the Cosmos can be explained in terms of a spaghetti of 'Birkeland currents' (electrical currents flowing along magnetic lines of force) and that 'pinched' Birkeland currents may be the mechanism for initiating gravitational collapse of matter in the plasma state.¹

How does the mind generate an electro-magnetic force to circulate the electricity in the body?

Dr Yang Jwing-Ming ²

According to Alfvén, space is filled with a network of currents which transfer energy and momentum over large distances. Plasma naturally forms filaments in response to electric and magnetic fields. The charged particles are guided by the magnetic fields and accelerated by the electric fields. The filaments may 'pinch' (or converge) magnetically to form stars.³

Stuart Clark reported in the *New Scientist* journal that astronomers have now detected a 'universal web.' Vast filaments of hot gas tracing the web of dark matter that underpins the large-scale structure of the Universe have been seen. Astronomers using NASA's X-ray satellite observatory, Chandra, viewed the filaments stretching for millions of light years through space, with one passing through our own galaxy. They calculate that the filaments contain five times more mass than all the stars in the Universe.⁴ According to Robert Britt, studies show that both ordinary and dark matter work in concert to build delicate filaments in space, with dense junctions where galaxies cluster. The resulting structures, he says, look something like spider webs.⁵ Klaus Dolag and colleagues report that, based on computer simulations of magnetic fields in galaxy clusters, galaxy clusters are embedded in large-scale spider-web-like structure of filaments. This

implies that the plasma streams primarily along such filaments, and thereby orders the magnetic field largely frozen into it. Extensive galaxy surveys have shown that structures resembling sheets and filaments characterise galaxy distributions. This distribution resembles a complicated spider's web several hundred mega parsecs in diameter.⁶

Invisible Filaments

Astronomers say that the filamentary structures are so hot that it would generally be invisible to optical, infrared, and radio telescopes.⁷ In other words, they are by definition, dark matter. The filaments are detected only because higher density matter tends to accumulate and condense in these filaments. Radiation from this high density matter around the nearly invisible cosmic filaments has been measured by scientists to confirm the existence of these filaments in intergalactic space.

Confinement by Dark Matter

The filaments betray the presence of dark matter because the hot gas in the filaments are thought to be confined by its gravitational influence.⁸ Gas at millions of degrees centigrade has a natural tendency to spread. To find it confined into filaments means that a very strong gravitational field must be pulling it into place. According to theory, only dark matter can do the trick. Alan Heavens, a lead dark matter researcher at the University of Edinburgh, says that the fine filamentary structure can only be explained by highly collapsed filaments of dark matter.⁹ Michael Merrifield of the University of Nottingham says that the large gravitational field generated by the dark matter is acting like a cosmic pressure cooker, holding the gas together.¹⁰ The (dark) etheric body of the universe is keeping the filaments of hot gas confined.

If these filaments are filaments of dark matter, it gives us further evidence that dark matter is in fact in the form of magnetic plasma or magma. Filaments are structural signatures of magnetic plasma (or magma).

The Web in Metaphysics

Filaments within Subtle Magma Bodies

It is a well accepted fact in metaphysics that there are filaments within our subtle magma bodies, which have been referred to as meridians, nadis and channels—in the Chinese, Indian and Tibetan literature, respectively. In Taoist and Qigong literature, they are also referred to as circuits and orbits. For example, Qigong practitioners may speak of microcosmic and macrocosmic 'orbits.' The microcosmic orbit is really the main meridian through which particles are accelerated in the relevant practices to bring energy to

the rest of the super magma body. These meridians are magnetic lines of force, frozen into super magma bodies. The currents flowing through them are Birkeland currents, as described in plasma cosmology.

The large scale structure of the universe, with a web of filaments punctuated with rotating galaxies, is similar to the web of acupuncture meridians or nadis punctuated with rotating chakras and acupoints which is found in the etheric component of the physical body.

I envisioned hundreds of little DC [direct current] generators like dark stars sending their electricity along the meridians, an interior galaxy that the Chinese had somehow found and explored by trial and error over two thousand years ago. It was obvious that the acupuncture charts had an objective basis in reality. Our readings indicated that these meridians were conducting current.

Robert Becker, *The Body Electric*, 1985 ¹¹

Invisible Meridians in the Human Body

The meridian system, chartered by Chinese acupuncture, can be considered the arterial system of the (lower energy) etheric double. These pathways are ordinarily invisible to the biological eyes—just like the invisible cosmic filaments. The filaments are detected mainly because they attract higher density matter which generates detectable radiation. Radiation has also been measured from meridians in the human etheric double.

French researcher Pierre de Vernejoul injected a radioactive substance into the acupoints of patients and measured the radiation using a special camera. He found that the substance migrated along classical Chinese acupuncture meridian pathways. Injections were also made by Vernejoul into random points of the body and into veins and lymphatic channels. These, however, were unable to demonstrate similar results, suggesting that the meridian system is a unique and separate network of pathways in the body. Further experiments showed that terminating a meridian that related to the liver resulted in a rapid degeneration of liver tissue. Without energy supply from the etheric double via the meridians; tissues, organs and cells of the biomolecular physical body do not appear to function properly.¹²

Plasma Flows in the Sun and in the Subtle Bodies

Scientists using the joint European Space Agency (ESA)/NASA Solar and Heliospheric Observatory (SOHO) spacecraft have discovered 'jet streams' or 'rivers' of hot, electrically charged plasma flowing beneath the surface

of the Sun. Our magma bodies, too, have hot, electrically charged plasma flowing beneath the surface. The crystalline states (or structured levels) of magma bodies consist of a light grid with plasmas of super particles flowing through their meridians. The fluidic and unstructured states are composed of super plasma in its liquid state which facilitates the generation and expression of our emotions.

Barbara Brennan says that bioplasma flows along the lines of the structured levels and correlates directly with our emotions. The combination of a standing light grid with bioplasma flowing through, according to her, holds the physical body together in its form, nurtures it with life energy, and serves as a communication and integration system that keeps the body functioning as a single organism.¹³

Many Yoga and Qigong practitioners have experienced movements of super particles in a plasma state along their spines and meridians, beneath the surface of their bodies, as a hot liquid. They are experiencing movements of super plasma in their etheric double. 'Kundalini' is also a form of super plasma—more dense than prana.

Leadbeater says, 'The fiery power (of kundalini) is like liquid fire as it rushes through the body when it has been aroused by the will.' He also says, 'The fire which comes from below is much more material, like the fire of red-hot iron, of glowing metal.'¹⁴ 'Much more material' means that kundalini has a higher density, compared to other types of super plasma.

SOHO also found features similar to trade winds that transport gas beneath the Sun's fiery surface. Plasma is often described as a gas. According to Daniel Cozort, Tibetan Yoga teaches that 'winds' move in a system of 72,000 subtle channels arrayed throughout the body. The right and left channels wrap around (or pinch) the central channel at certain places, constricting it such that the winds cannot pass through it. The central channel has seven loci of constriction; they are called 'channel-wheels' because many smaller channels branch out of them like the spokes of a wheel.¹⁵ Allan Barton says we can visualise plasma as a gas-like state of matter, bright and opaque because the particles are freely interacting with photons.¹⁶

Winds are basically movements of gases (making up what we call 'air'). Tibetan yoga relies heavily on the concept of winds flowing through channels. This is analogous to the movement of hot gas along cosmic filaments, described in plasma cosmology. The channels are meridians; the 'channel-wheels' refer to the chakras, which form when the channels magnetically pinch or converge. The dependence of mental and emotional states ('minds') on super charged particles in low density plasma moving as (Birkeland) currents ('winds') has already been discussed. Daniel Cozort reports that the white and red drops, along with the winds and channels,

are an integral part of Tibetan yoga.

In Tibetan yoga, it is believed that both white and red drops are found everywhere in all male and female bodies. The white drop predominates at the top of the head and the red at the solar plexus.¹⁷ It is interesting to note that plasma crystals can assume both liquid and crystalline states¹⁸—in other words they can be described as ‘plasma crystals’ or ‘plasma drops.’ These white and red drops can be interpreted to be plasma drops within the channels.

Central Channels, Main Vertical Current

Gabriel Tellez, who conducted experiments on two-component plasmas, subject to a gravitational field, observes that heavy charges accumulate at the bottom of a container in the experiment while light particles accumulate at the top. The suspension, he says, behaves like a condenser—and a vertical electric field is induced into it, as a result.¹⁹ Let us consider a two component plasma of positive and negative super particles in a colloidal medium in the newly formed magma body. In the absence of any nearby electromagnetic fields, the gravitational field’s influence will dominate. However, any nearby electromagnetic fields—for example, the higher energy electromagnetic bodies of the mother—will exert its influence as magma is highly responsive to electromagnetic fields.

The (super) electromagnetic field of the newly formed magma ovoid aligns itself with the mother’s interpenetrating (super) electromagnetic fields. As noted previously, one of the characteristics of plasma is its tendency to separate and form boundaries between plasma of different properties.²⁰ Similarly, the positive and negative super particles absorbed into the growing magma ovoid separate according to the universal density profile of dark matter (as discussed in Chapter 4); with density rapidly increasing towards the centre. In accordance with the cold dark matter model, it takes on the shape of an ovoid. Dense kundalini settles in at the centre of the ovoid (around the base of the spine) while prana (of opposite polarity) accumulate at the top and bottom of the ovoid’s longer axis.

Electric fields within the ovoid then accelerate the positive (say, kundalini) and negative (say, prana) super particles in different directions, generating vertical currents within the magma ovoid, aligned with its longer axis. The vertical currents in turn generate magnetic fields. Charged particles then course through the field lines generated by these magnetic fields as Birkeland currents. These secondary (Birkeland) currents reinforce the primary (vertical) currents; which in turn generate stronger magnetic fields. In other words, an ‘MHD (or magneto-hydrodynamics) dynamo’ is set-up in the magma body.

The magnetic fields generated by the biomolecular component of the physical body which have been studied are weak and localised. However, magnetic fields generated by dark bodies are strong as they serve to confine the plasma. They move with the plasma bodies and their flux lines manifest as meridians in our super magma bodies. Charged particles course along these meridians as Birkeland currents—illuminating them—in a similar way that fluorescent lamps are lighted up.

Brennan's Observations

Barbara Brennan and many other metaphysicists have observed a vertical current—aligned with the spine in a human being. This vertical current develops into three vertical channels in the traditional literature. It is recorded in Hindu metaphysics as the 'Sushumna' (or central) channel and the 'Ida' and 'Pingala' (centre-left and centre-right) channels. According to Brennan there is a vertical flow of energy that pulsates up and down the central channel. She calls this vertical current in the central channel 'the main vertical power current.'

'The main vertical power current induces other currents at right angles to it to form golden streamers that extend directly outward from the body. These in turn induce other currents that circle around the field, so that the entire auric field and all the levels below it are surrounded and held within a basket-like network,' she says.²¹ Brennan's observations that other currents are induced at 'right angles' to the vertical current is significant. Magnetic fields are generated by currents at right angles to the direction of the current. Brennan's observation suggests that charged particles are flowing within these magnetic fields generated by the vertical current. Hence, these secondary currents observed by Brennan would have to be considered Birkeland currents—confirming that these are magma bodies.

Straight and (Secondary) Helical Channels

According to Leadbeater, the course through which (kundalini) ought to move is spiral.²² This observation can also be found in Hindu religious and metaphysical literature.

It is significant that kundalini is observed to follow a helical path around the straight channels when it rises. Charged particles coursing through the straight channels create currents which generate magnetic fields. It is well-known, in basic electromagnetics, that magnetic field lines follow a spiral or helical path at right angles to the direction of the current.

There are two currents within the straight channels, moving in opposite directions. The first current of negative super particles (analogous to prana particles) is accelerated towards the base of the spine. The second current of

positive super particles (analogous to kundalini particles in a dense plasma state) is accelerated towards the head region. The two currents generate a pair of helical magnetic field lines—which provide additional channels for charged particles to flow. There is a centre-left helical channel and a centre-right helical channel. These form a double-helix around the two straight channels. Charged particles, including high density kundalini and low density prana, accelerate through these magnetic field lines forming Birkeland currents within magma bodies.

High density kundalini accumulates in the centre of the ovoid, just as it is present in the centre of the Earth—consistent with the universal density profile of dark matter under the cold dark matter model. Leadbeater says that ‘it is evident that the material in the centre of the Earth is in sympathetic relation with the layers of kundalini in the human body.’ The vertical current along the longer axis of the ovoid resembles a bar. Many spiral galaxies with a central bulge, including our own, have a bar of stars and gas aligned to its longer axis (looking at the galaxy edgewise).

We know that when currents move around a coil of wire which is wrapped around a bar of iron, the bar becomes magnetised. The straight channels are like electromagnetic bar (bipolar) magnets. When kundalini and prana particles spiral around the helical channels at normal volumes and speeds, the magnetic field generated by the straight channels are amplified and strengthened. The stronger magnetic field around the straight channels, in turn, allows kundalini and prana particles to move more freely and strongly in the helical channels—which again amplifies the magnetic field of the straight channels—generating an ‘MHD dynamo’ within the super magma body.

If the process is not properly managed, balanced and supervised, chaos could set in. For example, if certain practices over-stimulate the flow of kundalini, abnormal volumes of kundalini could be released into the channels—causing chaotic energetic surges which could result in physical damage and electromagnetic dysfunctionalities (including short-circuits, black-outs and brown-outs) within super magma bodies and ‘disease’ in the biomolecular body. The electromagnetic disturbances in super magma bodies also generate chaotic emotional surges, mental trauma and acute headaches. Such symptoms have been observed not only in the East but also among Western Christian contemplatives.

Kundalini is drawn into the body mainly by a large downward-facing chakra. On the other hand, prana is drawn into the body mainly by the large upward-facing chakra coincident with the top of the (physical-biomolecular body’s) head. Kundalini is denser than prana and is of opposite polarity.

Splitting of Light from Nucleus

The Zeeman effect in physics refers to the splitting of a spectral line into two or more components of slightly different frequency and energies when a light source is placed in a magnetic field. It was first observed in 1896 as a broadening of the yellow lines of sodium in a flame held between strong magnetic poles. Later the broadening was found to be a distinct splitting of spectral lines into as many as 15 components.

Due to the influence of a bipolar magnetic field generated by the vertical power currents, the light from the nucleus in magma bodies is split into several components, with different frequencies (and therefore colors) and energies—as a result of the Zeeman effect. There is an ascending order of frequencies and energy levels. The components act as catalytic electromagnetic sinks which induce the central straight and helical channels to pinch to form nodes, which later evolve into chakras. Each node, which sets up an intense electromagnetic field around itself, then generates its own set of meridians—which connect with the rest of the magma ovoid.

Daniel Cozort reports that the origin of the red and white drops within channels (discussed earlier) is believed to be the ‘indestructible drop’ at the heart, a tiny drop the size of a large mustard seed or small pea (it is called ‘indestructible’ because the ‘continuum of the very subtle wind’ within it is never broken according to Tibetan Yoga).²³ This drop (which is equivalent to the nucleus) is actually composed of two drops—the ‘eternal drop,’ which is very subtle and the ‘lifetime drop’ which is destroyed at the end of an individual’s life.²⁴

The origin of the various nodes that evolve later into chakras is the nucleus of the magma body which is normally situated around the heart region (it was probably ‘captured’ by the strong electromagnetic field generated by the heart—which acts as an electromagnetic well or sink.) The light from the nucleus is split by the Zeeman effect during morphogenesis. During the death process, however, there is a ‘reversed Zeeman effect’ (after the collapse of the main vertical power current). In this case, the different nodes of different colors merge into a single nucleus (which Tibetan Yoga calls the ‘indestructible drop’) which is then ejected from the body.

Vortexes, Chakras

Barbara Brennan describes chakras as swirling cone-shaped vortexes in the human energy field. Chakras (or ‘wheels’ in Sanskrit) are rotating cone structures or vortexes in super magma bodies which have been observed by most experimental metaphysicists. These chakras are in fact the external manifestation of interactions between charged particles in ionised (or plasma) environments and the nodes which form when meridians (or

channels) pinch or converge.

Formation of Chakras

It has recently been realised (as discussed in plasma cosmology and plasma crystal technologies) that a localised source at fixed frequency excites a cone of radiation with an axis aligned with the magnetic field passing through the source. The apex of the cone will be pointed towards the source. The angle of the cone is determined by the frequency. According to A Piel and his colleagues, who conducted experiments on waves and oscillations in plasma crystals, fast moving particles in a plane below or next to a single-layer plasma crystal can excite Mach cones.²⁵

Pinching of Meridians

According to plasma cosmology, stars and rotating galaxies are formed when Birkeland currents are pinched. This can happen when two currents move towards or cross each other. The components created by the Zeeman effect (discussed above) are electromagnetic in nature and meridians tend to converge on them. Based on observations in plasma cosmology, we can infer how chakras develop in super magma bodies.

Dr David Tansely, a radionics specialist, says that, 'The seven major chakras are formed at points where standing lines of light (or meridians) cross each other 21 times. The 21 minor chakras are located at points where the energy strands cross 14 times.'²⁶ When meridians cross in our super magma bodies, they pinch each other, forming 'knots' and collapsing as nodes, pulsating at fixed frequencies. The pulsations and the intense magnetic field attract super particles and objects (such as Q-balls)—which rush into the node using a helical path, which excites a cone of radiation.

Alignment of Cones

This cone has an axis aligned with the magnetic field passing through the source. In other words, it would be as if the magma (in the chakra) are swirling around a bar magnet (the magnetic field generated by the node). If we could imagine the chakra as a cone, this means that the apex of the cone would have a different magnetic polarity from the base of the cone. The apex of the cone is in contact with the node (i.e. it is facing the central channels). The broad base of the cone will be facing the environment. If we look at the central channel, the nodes would be distributed along the knots in the central channels at discrete intervals. This agrees well with metaphysical observations (and is consistent with the behavior of magnetic plasma, as noted in studies of plasma crystals²⁷). According to Brennan, 'Their tips point into the main vertical power current and their open ends extend to the

edge of each layer of the field they are located in.’²⁸

Double Vortex Structure

According to the scientific researchers, a complicated elastic double vortex structure emanates from the excited region. Each of the vortices then splits into an outgoing and inward-going vortex. The inward-going structures show a crossover in the centre of excitation and reappear as a secondary outgoing vortex that follows the original outgoing vortex. The wave-fronts are circular near the source.²⁹

This resembles how metaphysicists, such as Leadbeater and Barbara Brennan, have described and illustrated the spinal chakras—which come in pairs and have circular wave-fronts. A tube or channel connects the outward-facing chakra at the front of the body to the chakra behind the body—which faces in the opposite direction.

Wave Types

Two fundamental wave types (longitudinal and transverse waves) make up the complicated wave pattern of the vortex. The evolution of the transverse wave is characterised by an initial double vortex. The longitudinal wave also forms circular wave-fronts, although with an orthogonal distribution of radiation energy. It evolves into a ‘wave train.’ The wave train formation and the Mach cone structure are two manifestations of the same phenomenon according to Piel’s findings.

Both the Mach cone structure (the chakra feature generated by the primary force) and the wave train (undulating waves within the chakra generated by secondary forces) have been identified by Leadbeater. According to Leadbeater, a primary force rushes at right angles to the plane of the spinning chakra—these are forces generated by the highly energetic particles from the environment which are strongly attracted to the intense magnetic fields of the nodes in the meridian just below the surface of the magma body. Then, having entered the vortex it radiates from it again at right angles (i.e. an orthogonal distribution of the force), but in straight lines—as though the centre of the vortex were the hub of a wheel, and the radiations the spokes. The number of these ‘spokes’ differs according to the frequency of the chakra.³⁰

According to Leadbeater, the primary force generates secondary forces which have their own characteristic wave-lengths—moving along in relatively large sinusoidal waves of various sizes (i.e. a wave train)—each of which is some multiple of the smaller wave-lengths within it. The frequency of waves set up by secondary forces is determined by the number of ‘spokes’ in the chakra. The secondary force weaves itself under and over

the radiating currents of the primary force.³¹

The correlations between what Leadbeater observed in the chakras of the etheric, astral and causal bodies; and vortexes in plasma crystals provides further evidence that these bodies are composed of super magnetic plasma, which behaves in similar ways to standard cosmic plasma.

Vortex Arrays

It is interesting to note that the cone structures (or chakras) are positioned at different angles in illustrations in the metaphysical literature. As noted earlier, the angle correlates with the frequency of the radiation source, according to plasma cosmology. It is well-known in metaphysics that not only are the spinal chakras positioned at different angles but that each chakra spins at a different frequency.

Absorption of Energy

According to Barbara Brennan, each swirling vortex of energy appears to suck or entrain energy from the 'Universal Energy Field.'³² Chakras connect to the nodes of meridians which are areas of intense magnetic fields. They are therefore able to attract high-energy charged Q-balls (qi, prana or kundalini relevant to that particular super universe and specific chakra) with a net magnetic polarity from the magma environment within the ovoid. The energetic plasma of super particles from the environment (or as what Brennan calls the 'Universal Energy Field') has already permeated through the membrane or electrified sheath of the ovoid.

The particles, after absorption, course through the meridians to distribute energy to various parts of the body—similar to what happens in the heart-lung and circulatory systems in the physical-biomolecular body in terms of distributing oxygen to the cells in the body. When particles in super magma bodies are energized they begin to respond to their environments. Leadbeater states that one of the functions of chakras is to calibrate (or entrain) the frequencies of particles in order for them to be responsive to particular frequencies of radiations in the magma environment.³³ When the Q-balls have transferred their energy to the particles in the body, they are ejected from the body through its skin and the magma bubble's membrane causing magma bodies to glow; or alternatively they may be cannibalized and used by the body to form other components. When super particles enter or leave magma bodies, they cause these bodies to emit light.

Magneto-Hydrodynamics in Chakras

Chakras along the spine of a human body are quite large compared to the hundreds of small rotating micro-chakras which make up the 'acupoints' in

acupuncture. These chakras are usually called the 'spinal chakras.' Just like sun spots, chakras represent areas of intense magnetic fields. Similarly, the micro chakras or acupoints are also areas of concentrated magnetic fields. In fact, each chakra (whether major or minor) is like a bar magnet aligned to the chakra's axis of rotation.

The matter in the various magma bodies are shaped due to both hydrodynamics and the presence of magnetic fields (in other words, magneto-hydrodynamics); and the interactions with charged particles in the plasma environment. For example, water spirals down into a sink hole due to the pull of the gravitational force and hydrodynamics. Similarly charged Q-balls attracted to the highly charged and magnetised nodes in meridians are sucked into the magma bodies at very high speeds—exciting cone structures on the surface. Under the influence of the intense magnetic field, charged particles from the plasma environment spiral into the nodes and then into the meridians—to bring energy to various parts of the magma body.

Nested Cones (or Chakras within Chakras)

According to Piel and his colleagues, the Mach cones in plasma crystals possess an interesting multiple structure of nested cones, which were explained as the dispersive effects of longitudinal waves.³⁴ Nested cones within chakras in our magma bodies have been observed by Barbara Brennan. According to Brennan, chakras appear 'to be nested within each other like nesting glasses. Each chakra on each higher layer extends out farther in the auric field (to the edge of each auric layer) and is slightly broader than the one below it.' She also observes that within each chakra there are also small rotating vortexes spinning at very high rates. Each vortex metabolizes an energy that resonates with its particular spin frequency.³⁵ The first type of nesting—where each chakra is extended to the higher-energy bodies, can be called a vertical nesting. Horizontal nesting, the second type of nesting, describes smaller vortexes within the chakra.

Direction of Chakra Spin

According to Brennan, the open end of a normal chakra in the first layer of the aura is about six inches in diameter and at a distance of about one inch from the body. The direction in which a chakra spins is important. When the chakra is spinning clockwise it is absorbing energy. When spinning anticlockwise—the flow of energy is in the reversed direction.³⁶ This is similar to airflows in the operation of an electric fan. Chakras in the Northern and Southern Hemispheres are affected more by electromagnetic forces than by gravitational forces, as is the large-scale structure of the universe as studies in plasma cosmology suggest.

Health of Chakras

If chakras or acupoints are rotating sluggishly or are malfunctioning, energy distribution will become erratic, low or stopped. It is analogous to a lung infection, asthma or a heart condition. Brown-outs or black-outs could occur in electromagnetic super magma bodies. Acupuncture seeks to free blockages in these acupoints or simply to stimulate activity in the chakra, so that energy can be drawn in from the environment more efficiently and distributed within the super magma bodies. A blocked meridian is as dangerous as a blocked blood vessel, which cause heart attacks or strokes in the physical-biomolecular body.

Sheath, Shell, Membrane

The outer edge [of the egg form] actually looks like an eggshell to me; it appears to have a thickness of about a quarter to a half inch. It is strong and resilient, resistant to penetration and protects the field.

Barbara Brennan ³⁷

The outer layers of the etheric, astral and causal bubbles form membranes or shells. According to plasma cosmology studies and plasma physics in general, magma has a natural tendency to form (double-layered) electrified sheaths, separating magma of different physical properties. Leadbeater says that the astral and etheric centres are in very close correspondence; but between them, and interpenetrating them is a sheath of closely woven texture, a sheath composed of a single layer of highly compressed physical atoms which is permeated by a special force.³⁸ Even other metaphysicists report that the ovoid magma bodies are wrapped by a membrane or a sheath. This membrane has been called an 'auric shell.' Metaphysicist, Lobsang Rampa, calls it an 'auric sheath.'³⁹ Surface currents on the shell or sheath separate the magma ovoid from the surrounding magma environment. The sheath acts as a protective electromagnetic shield whose strength and polarity can be adjusted by an act of will by the owner of the body, using focused visualisations and other techniques common in meditation.

Asymmetrical Flows of Energy between Magma Bodies

Leadbeater observes an asymmetry in the flow of energies between higher-energy and lower-energy magma bodies. While higher frequency energies can easily penetrate the auric sheath and flow down easily into the lower energy body, lower frequency energies cannot penetrate the sheath and move up to higher energy bodies. Leadbeater reported that 'the divine life

which normally descends from the astral body to the physical is so attuned so as to pass through the sheath with perfect ease, but it is an absolute barrier to all other forces—all of which cannot use the atomic matter of both planes. This is the protection provided by nature to prevent a premature opening up of communication between the planes.’⁴⁰

A similar asymmetry has been observed in studies of complex plasma. A Piel and his colleagues report the existence of attractive forces that lead to vertical alignments of particles in experiments on plasma crystals. In their experiment, two particles of slightly different mass formed a vertically aligned pair. When the upper particle was pushed sideways the lower particle strictly followed the upper particle’s motion. However, when the lower particle was pushed by the same laser force, the binding with the upper particle was destroyed. ‘This clearly demonstrated the asymmetric nature of the attractive force’ said A Piel. He adds, ‘The asymmetry allows information to be communicated downstream but not upstream.’⁴¹



Holographic Mechanisms within Magma Bodies

Nikola Tesla, one of the greatest inventors of the twentieth century, was able to visualise possible inventions with great facility. He did not need to make models or drawings or perform experiments—all he had to do was set his mind's eye to work. According to Tesla, 'It is absolutely immaterial to me whether I run my turbine in thought or test it in my shop. The results are the same. The images I saw were wonderfully sharp and clear and had the solidity of metal and stone—absolutely real and tangible in every detail, even to the minutest marks and signs of wear. Invariably my device works as I conceived it and the experiment comes out exactly as I planned it. In twenty years there has not been a single exception.' Tesla's lucid visualisations remind us of Albert Einstein's 'thought experiments' which were just as real and reliable to Einstein as it was for Tesla. Albert Einstein characterised the manner in which he initiated his thought processes as largely 'visual.' He said he rarely thinks in words and explains, 'The psychical entities which seem to serve as elements in (my) thought (processes) are clear images which can be "voluntarily" reproduced and combined.' Einstein was able to manipulate these mental images as he desired.

To most of us, our mental images appear fuzzy in waking consciousness and in dreams. Clairvoyants and regular meditators, on the other hand, are able to see their thought-forms (or mental images) more clearly and in full

color in their mind's eye. The great music composer, Brahms, wrote that when he is in an exalted state, 'I immediately feel vibrations which thrill my whole being ... and assume the form of distinct mental images.'

According to Leadbeater¹ and Valerie Hunt², when a man thinks of any concrete object—a book, a house, a landscape—he builds a tiny image of the object in the matter of his (lower) Causal body. This image floats in the upper part of his body, usually in front of the face of the man and at about the eye level. These mental images are so entirely objective that they may not only be seen by a clairvoyant, but they can even be moved about and re-arranged by someone other than their creator. The images are definite, crystal-clear and intricate to clairvoyants and others, like Einstein. Where are these images emanating from? Are they produced by the biomolecular brain? Karl Pribram, who won the Nobel Prize for his research into the holographic nature of our brains, thinks that the holographic-like 3d images we see in our mind's eye are outside the brain mechanism.³

Holographic Storage in the Brain

Karl Lashley has pointed out, after conducting numerous experiments on the brains of animals, that neither the learning nor the retention of a habit is localised in any one area of the cortex. Instead, the degree of retardation in learning or loss of memory following cortical lesions is proportional to the amount, and not the place, of the cortical lesion. This fact, which he calls 'cerebral mass action,' has been demonstrated over and over again⁴; suggesting that memories are stored in the form of holograms or holographic codes.

According to Pribram, the brain uses holographic-like code to encode incoming sensory information. There are no laser beams in the brain. The retinal image is mapped onto the brain's cortex which breaks down the image into various waveforms using a mathematical technique called 'Fourier transforms' (as in holography). The brain does not store a literal reproduction of an object's image but an abstract holographic code of wave-phase relationships like the overlapping patterns of light and shade on a holographic plate.⁵ In a sense, the brain, according to Pribram, represents the holographic film on which interference patterns are stored. Our brains appear to operate as real-time holographic recording machines. To understand this process better, we look at recent attempts at memory storage using holographic techniques in computer systems. .

Holographic Storage in Computer Systems

A digital holographic storage system, integrated with a computer hard drive, was built by scientists at Stanford University.⁶ Data is converted into light patterns and stored in a holographic form. It can be 'stacked up' in the holo-

gram by recording at several angles. In holographic data storage, an entire page of information is stored at once as an optical interference pattern within a thick, photosensitive optical material. This is done by intersecting two coherent laser beams within the storage material. The two beams produce an optical interference pattern which causes chemical and/or physical changes in the photosensitive medium. A replica of the interference pattern is stored as a change in the absorption, refractive index, or thickness of the photosensitive medium. The pattern contains information about the amplitude and the phase of the two light beams.

When the stored interference pattern or grating is subsequently illuminated by one of the two beams used during the recording, some of the light is diffracted by the stored grating in such a way that the wave generated by the other beam is reconstructed. The interference pattern is thus reconstructed to produce the image of an object.

A large number of these interference patterns or gratings can be superimposed in the same thick piece of media and can be accessed independently, as long as they are distinguishable by the direction or spacing of the gratings. Such separation can be accomplished by changing the angle between the two waves or by changing the laser's wavelength. Any particular data page can then be read out independently by illuminating the stored gratings with the wave that was used to store that page.^{7,8}

Is the wet biomolecular brain capable of storing information in the same way as a computer system using holographic storage techniques? How does it project 3d images in the 'mind's eye'? Would a more obvious place to store this type of information be in our liquid-crystal super magma bodies? More specifically, from the vantage point of our biomolecular bodies, would the liquid-crystal etheric double be a more obvious place? The latest scientific experiments show that liquid-crystal is indeed the ideal material for not only holography, but real-time holography.

Doped Liquid-Crystals are Ideal for Real Time Holography

For real-time dynamic holography, erasable holographic film is required. The most commonly used erasable holographic film are crystals which are doped (or mixed) with iron or other suitable materials. These crystals react to the light and dark regions of an interference pattern by changing their arrangements of electrons which result in changes in their index of refraction. The stored arrangements can be rearranged by later illumination, so it is possible to erase recorded holograms and replace them with new ones. A holographic storage system built from crystals would record data slowly and in large blocks but provides rapid access to any small chunk of data—quite similar to how our brains appear to operate. The large data

blocks could be erased and replaced as desired.

Liquid-crystals may also be doped with other materials. The addition of carbon nanotubes and buckyballs to liquid-crystals alters the crystalline alignment of liquid-crystals and changes their nonlinear optical properties, according to Penn State electrical engineers. Dr. Khoo Iam-Choon, professor of electrical engineering, and his team say that the axis of refraction of these 'doped' liquid-crystals change when exposed to light. The doped liquid-crystal film can be used to create real-time holographic movies according to him.⁹ Stanislaw Bartkiewicz and his colleagues have conducted many experiments using doped liquid-crystals and recommend them for real time holography. They say that doped liquid-crystals are ideal materials for real time holography.^{10, 11}

Meschede and his colleagues directed a laser beam into a crystal doped with iron that can be 'imprinted' with instructions on how to reconstruct a pattern of crossed lasers. As a first test, the team chose to create a simple interference pattern (a hologram) of three beams, one hitting the crystal and two reflected at slightly inclined angles to the first. They 'recorded' these instructions by heating the crystal and focusing three intense rays upon it at the proper angles for three hours. Hitting this prepared crystal with a laser re-created the interference pattern, which looked something like a backgammon board.^{12, 13}

A team member, Karsten Buse, says that in principle such crystals can store a pattern of up to 1,000 overlapping beams. They could also hold separate holographic images for incoming light of different wavelengths or angles. To make a three-dimensional pattern, Meschede explains that the beam could contain several kinds of atoms, and the holographic template could be tuned to focus on one component at a time, letting the others pass right through. The method could be used to make intricate structures, such as photonic crystals and a new technology that may lead to 'circuits of light,' according to Meschede.¹⁴

Liquid-Crystal Magma Bodies Doped with 'Samskaras'

Doping or mixing the liquid-crystal with suitable materials appears to be an important part of the process in preparing liquid-crystals for holographic storage and playback. Our super magma bodies are liquid-crystal but are they 'doped'? The metaphysical literature suggests that they are. According to the metaphysical literature, the sight of an object, the thinking of a thought, the performance of an act or the saying of a single word leaves a trace in the 'soul' that lasts; leaving an imprint in the subconscious mind, which then color all of life, one's nature, responses, states of mind and attitudes. This subconscious imprint is called a 'samskara' in Hindu

literature. These imprints are thought to be etched or imprinted in the subtle bodies—in other words, the super magma bodies. The Catholic saint and doctor of the Church, Theresa (of Avila), says that ‘the soul is like a crystal in the sunshine over which a thick black cloth has been thrown so that however brightly the Sun may shine the crystal can never reflect it.’¹⁵ Siddhartha Gautama said that the mind is luminous, but it is defiled by taints that come from without.¹⁶ ‘Samskaras’ and ‘vasanas’ are seen as ‘taints that come from without.’ Meditation is seen by Patanjali¹⁷ as the final method by which these vasanas and samskaras, as impressions accumulated in the mind, can be wiped out. Siddhartha, however, has warned that not all types of meditation can wipe them out—only certain types of meditation accompanied by reflective analysis. These imprints are not only stored in our magma bodies but as a result of them, manifestations or ‘playbacks’ can occur. Octavian Sarbatoare says, ‘Vasanas (or samskaras) are imprints in the mind or mind residues that give to the mind a certain tendency to manifest.’¹⁸

It is interesting to note that Barbara Brennan and other metaphysicists have observed subtle bodies to have ‘grids of light’ and have described them as ‘standing waves of light.’¹⁹ Some others have described them as ‘light bodies.’ This suggests further that Pribram’s holographic memory system may not originate in the biomolecular brain but in the liquid-crystal etheric double and replicated in other higher energy bodies. The biomolecular brain provides sensory information to the etheric double for holographic encoding, consistent with Leadbeater’s observations.²⁰ It would be understandable in this context that research into the brain against the backdrop of the invisible etheric double (which is currently not detectable by our instruments) would suggest that the biochemical brain is holographically encoded (in some mysterious way).

Parts for Holographic Machines within Super Magma Bodies

Super magma bodies are ideal real-time holographic machines which generate and project holographic images in response to thoughts and emotions (just close your eyes for some time and observe the 3d images in your mind). The peculiar properties of magma provide the higher energy bodies all the ‘parts’ to construct a holographic machine, including lenses, wires and screens. This is supplemented by magnets, dynamos and batteries that have been discussed in earlier chapters.²¹

Plasma lenses and wires

Thomas Katsouleas of the University of Southern California in Los Angeles and his colleagues have observed beams of particles bend when passing

through plasma—just as light bends when passing through a lens. A collaboration of physicists in California has shown that a rarified plasma, a million times less dense than air, can bend or ‘refract’ an intense, high-energy electron beam that can ordinarily bore through several millimetres of steel. This opens up possibilities for using plasma to direct current, just as copper wires guide electric current, effectively acting as ‘plasma wires.’²² ‘Not only did we see refraction, but we saw the beam reflect at the edge of the plasma, and we saw it split in two,’ said Katsouleas. ‘It is a peculiar property of plasma that this occurs. Even though the beam is intense enough to blast through solid steel, it hit plasma that was about one million times less dense than the air and bounced off.’²³ As discussed earlier, magma has the ability to generate beams of particles. Plasma also has strong refracting and reflecting abilities enabling it to focus these beams of particles, including photons, to specific targets—acting like lenses. This gives super magma bodies many of the components required to operate a holographic machine within the body—including plasma lenses and wires!

Focused Beams of Light from Chakras

According to Li and colleagues, an ordered magnetic field is widely thought to have an essential role in jet formation from a rotating accretion disk in a magma environment. The process of forming parallel or ‘collimated’ jets and outflows due to disk accretion onto central compact objects is thought to depend on how magnetic fields behave when they are swirled around by the accretion disk.²⁴

Jet formations also occur in cosmic plasma. As far back as 1918, astronomer H D Curtis noticed a jet from the centre of the galaxy M87, describing it as a ‘curious straight ray’ emanating from the galaxy. Taking the form of a huge flashlight beam in space, a jet of electrons and protons travelling near the speed of light can be seen in NASA’s most recent image of the galaxy. Energetic astrophysical jets, with velocities approaching the speed of light, are seen on a variety of scales emerging from active galactic nuclei and young stars. It is thought that they result from the magnetohydrodynamics of accretion disks rotating around a large mass. The energy radiates from charged particles that are moving in a curved orbit (typically around a magnetic field aligned with the jet).

As discussed earlier (Chapter 9), the chakra is a rotating accretion disk on the compact super magma body which swirls around an intense magnetic field, aligned with the axis of the chakra. (The axis of the chakra will be parallel to a jet issuing from it). The rotation is caused by charged super particles rushing into the node—following a helical path.

Jets or directed beams of light have been seen in photographs taken during events where subtle energetic practices take place (for example: Reiki, Qigong and Christian 'Praise and Worship'). There are also Hindu, Taoist, Buddhist and Christian images showing jets of light issuing out from the palms of saints or deities. There are important chakras on the palms of the hands. The frequency and spin rate of the chakra would have a direct effect in determining the energy and coherence of the beam. One of the seers of the Fatima apparitions of 'Mary,' Lucia, revealed that during one of the apparitions, 'Mary' opened her hands and 'rays of light' issued from them. This may have been done simply by increasing the rotational speed of the chakra in the palm (by an act of will) causing charged super particles to swirl around an intense magnetic field rapidly, radiating energy which was directed by the magnetic field aligned with the jet.

The Internal Plasma Holographic TV

In his best-selling book 'The Feeling of What Happens,' Antonio Damasio points out that the neurobiology of consciousness faces a problem in trying to explain how the 'movie-in-the-brain' is generated.²⁵ When someone uses his 'mind's eye' does he recreate the original sequence using the part of the brain that originally processed the scene or sound, or some other part? If so in what form are these scenes or sounds stored and how are they displayed or played-back? Why is it bright? Is the image in a mind's eye actually made up of photons or super-photons? If so, how does the mind project a stream of photons onto its mental screen, like an internal TV?

While Pribram believes that holographic encoding and storage takes place in the brain there is very little explanation as to how the interference patterns which are supposed to be stored in the biomolecular brain actually recreate and project 3d images in the mind's eye. In 1980, cognitive scientist Stephen Kosslyn demonstrated that 'the mind's eye' is surprisingly real. The visual field of our biological eyes is a flat oval, about 45 degrees in height and 120 degrees wide. The aspect ratio (the ratio of the vertical to the horizontal extension) of the visual field of the mind's eye is the same! Bernard Baars says, 'A variety of experiments show a remarkable resemblance between the physical visual field and its mental double.' In 1988 Stephen Kosslyn and Martha Farah showed that visual imagery (in the mind's eye) elicits activity in the same parts of the brain's cortex as visual perception. In other words, in generating mental images in the mind's eye; we use the same parts of the brain that interprets information from the physical eye. If that is so, scientists should also ask, 'Which "eye" is the brain using when interpreting our internal images and how are the images generated?'

According to the metaphysical literature, the 3d images in the 'internal TV' or the mind's eye are generated in higher-energy super magma bodies and then brought to focus in the lower energy etheric double through a sophisticated mechanism, possibly involving quantum gravity!

It has often been argued that there is no 'homunculus' (or a 'little man') within the (biomolecular) brain that looks at images generated by the brain as this would lead to infinite regress. This argument appears simplistic in the light of the existence and complex interactions of a series of body-brains with their own sophisticated cognitive-sensory activities. Conventional neuroscientists currently assume only one body (i.e. the ordinarily visible biomolecular body).

Gravitational Lensing in our Heads?

Light has been observed to be 'bent' by large masses such as stars due to distortions in spacetime that these masses create. In fact, it was this observation in 1919 that shot Albert Einstein to fame. The star, in bending light, behaves just as an optical lens. Even elementary particles have gravitational fields. As such even massive elementary particles can bend light.

Leadbeater reported in 1910 that an 'atom' allows us to view images emanating from our higher energy super magma bodies.²⁶ Gravitational lensing was not known then. Based on a current interpretation of Leadbeater's report, a physical-etheric atom, using gravitational lensing, focuses multi-dimensional images generated from higher energy bodies to a place in front of the biological eyes as 3d images. This mobile atom will be found most often hovering in front of the prefrontal cortex of the brain i.e. in the middle of the eyes. When a person is not visualising any thoughts, this atom can be clearly seen as a bright dot which hovers or floats in front of the biological eyes. On closer inspection, two comet-like bodies (with nucleus and tail) may be seen revolving around themselves in the atom—much like the Yin-Yang symbol. This leads us to believe that this atom is in fact an ensemble of two and of opposite polarities. The alternating light and darkness due to the revolutions creates a light-house effect—as if there was a rotating beam of light.

When visualising, 3d images are delivered to the physical-etheric eyes by this atomic lens—like a cinematic projector, from higher energy bodies. Some may wonder how it is that we can see a single atom. Based on the description it appears that this quantum object may be as large as an atom. It has been pointed out by Roger Penrose and Gary Zukau that the dark adapted (biological) eye is capable of seeing even a single photon²⁸, which is smaller than this atomic lens. This 'atom' may be what is commonly called the 'third eye' in the metaphysical literature.

Most examples of gravitational lensing show multiple images of the object behind the lens being generated. However, this may not be so. Two types of lenses can be distinguished in gravitational lensing – isothermal lenses and Navarro-Frenk-White (or ‘NFW’) lenses. Unlike isothermal lenses which generate multiple images, NFW lenses are able to produce large magnifications with a single detectable image. Physicist Charles Keeton and his colleagues, in a paper entitled ‘Gravitational lensing magnification without multiple imaging’, conclude ‘...lensing can produce a single highly magnified image; this phenomenon is mainly associated with massive cluster-scale halos.’²⁸ Hence, Leadbeater’s atomic lens can be considered a massive dark matter object (relative to the quantum scale) which generates a single highly magnified image to our physical-etheric double’s eyes. According to Leadbeater, abstract thoughts do not generate any images or forms in our super magma bodies but instead generate vibrations which propagate through the magma in our super magma bodies as acoustic waves.²⁹

The System

It can also be observed that this atomic lens, though mobile, is bounded within the space between the biological eyes—as if some invisible forces were acting as an atom trap. It has been observed by Leadbeater and other metaphysicists that the pineal and pituitary glands play important roles in the interaction between the biomolecular body and the higher energy bodies. Chains of magnetite crystals have been discovered in the brain tissue of human beings. The ethmoid bone above the eyes and sinuses has a high concentration, and so does the blood-brain barrier. The discovery of magnetite in these areas is significant because of the proximity to the opthalmic nerves, which carry visual information to the brain. It is also significant as these structures may facilitate interactions between the physical-biomolecular body and the lower physical-etheric body.

When the magnetic fields generated by these magnetite deposits are made coherent by certain mental exercises, it may very well be possible that these magnetic fields, together with the atomic lens (or ‘third eye’; or ‘mind’s eye’) are enabled to receive and view images emanating from higher energy bodies. The magnetic fields and atomic lens ensemble serves to focus images generated from higher energy to lower energy bodies.



Appearance of Magma Bodies

Magma Bodies Emit Light

Unlike the biomolecular component of the physical body which is visible because of reflected light, objects in the astral and causal universes emit light as a result of the interaction between particles in magma bodies and high energy particles in the environment or the 'aurora effect.' According to Leadbeater, in the astral world there is a diffused luminosity, not obviously coming from any special direction. The environment of emissive light bodies in super universes would be very similar to being a character on the screen of a multi-dimensional plasma holographic TV.

The Aura and the Aurora

The aura is a colored radiation that emanates from magma bodies and can be seen by some people. Anthony Peratt says that electrons passing through space are captured by the Earth's magnetic field and follow spiral or helical tracks about the lines of force and in the process collide with gases in the neutral atmosphere creating the aurora.¹ Paramahansa Yogananda said in 1946 that the 'astral luminaries' resemble the aurora borealis.²

The aura that is radiated by the various magma bodies is generated by a procedure not unlike the one that generates the aurora borealis. We have already noted that there is a tendency for charged particles to follow magnetic

lines of force.³ The charged super particles in the astral and causal ionised magmaspheres are captured by the electromagnetic fields of our super magma bodies and flow down (or up) magnetic (helical or spiral) lines of force in the astral and causal bodies generating colorful auras. However, whereas the aurora is a natural plasma light show comprising standard particles—the aura is a plasma light show of super particles!

Kristian Birkeland put forward the auroral theory which is now widely accepted by scientists. According to him, electrically charged particles ejected from sunspots are captured by Earth's magnetic field and directed along the field's lines into the polar regions. The incoming particles excite the atoms and molecules in the air and ionise them—stripping them into their non-neutral constituents. This is similar to a jet of charged energetic electrons striking the phosphor screen of a TV causing images to be formed. Peratt explains that to prove his auroral theory, Birkeland used a simple device—he placed a sphere containing an electromagnet inside a large vacuum chamber, which represented the space around the Earth and its magnetic field. He then shot clouds of electrons toward this simulated Earth to produce a light phenomenon that looked like the aurora.⁴

This configuration is exactly the same as that of a super magma body. The super magma body is an ovoid with a plasma 'auric' sheath (a near-sphere) with a magnetised central channel (equivalent to the electromagnet). This ovoid exists within a plasma or ionised astral or causal environment. Charged Q-balls, which have a net magnetic polarity, stream towards the various chakras (which contain intense magnetic fields) at very high speeds and spiral around helical paths just before they are absorbed by the chakra. These charged balls interact with the Q-balls (and other super particles) in the magma bodies to create a light phenomenon in the magma bodies—very much like the aurora borealis. Anyone who compares the Kirlian images of human auras (or who can actually see them) with the aurora borealis will no doubt find a strong resemblance. The electromagnetic processes that give rise to the aurora borealis are the same as those which give rise to the human aura—which are basically colored clouds of radiation seen around super magma bodies.

Lensing Properties of Magma Bodies

Magma bodies can become translucent or transparent through the manipulation of frequencies generated by the magma (this is a natural property of magma). In other words, the opacity of the magma bodies can be manipulated electromagnetically. As magma bodies are frequently transparent or translucent, there are no or only faint shadows, according to Leadbeater.⁵ Due to their transparency, the bodies themselves can act as lenses and even

‘Polaroid lenses’ due to the Faraday effect.

Faraday succeeded in showing that the plane in which light oscillates is rotated as soon as light passes through special magnetisable bodies (such as magma bodies) along the lines of force. The plane is rotated when the light path and the direction of the applied magnetic field are parallel. The magnitude of the rotation depends, among other things, on the strength of the magnetic field and the frequency of the light. The direction of rotation is the same as the direction of current flow in the wire of an electromagnet. Faraday called his discovery ‘the magnetisation of light’ and ‘the illumination of magnetic lines of force.’ We have now seen that light can in fact be magnetised, and in nature itself, in the aurora borealis just discussed, the magnetic lines of force of the Earth are illuminated by electrons escaping from the Sun. Barbara Brennan observes that the etheric double incorporates a light grid—which is basically a magnetic field with illuminated lines of force.

Another property of the ‘magma body lens’ is birefringence or ‘double refraction.’ Birefringent materials can have two different indices of refraction in different directions. This splits light into two components—which can give rise to double images. Liquid crystals and magnetic plasma exhibit this property. Birefringence can be easily manipulated with the help of rather weak magnetic, electric or optical fields, leading to significant effects.

Magma Bodies are Thermochromic

When one heats a crystal made up of long rod molecules, the crystal loses positional order and becomes a fluid. However, it may retain its orientation and form a thread-like liquid-crystal state. If the repeat length of patterns is of the same order as the wavelength of visible light, this thread-like liquid-crystal can act as a diffraction grating and generate visible colors. Because the spacing changes with temperature, the material changes color with temperature (i.e. it is ‘thermochromic’). The thermochromic nature of our magma bodies is particularly evident in the fluidic or liquid states. It is well-known in metaphysical literature that the astral body (in its liquid state) can be very colorful. Different temperatures within the astral body give rise to a kaleidoscope of colors.

Display of Mental States in Super Magma Bodies

When a person is angry, heart and respiration rates go up, the voice becomes louder and higher in pitch. When fearful, he has a heavy heartbeat and his voice becomes softer, slower and lower in pitch. Brain CAT scans in real-time can now show changes in these mental and emotional states on a computer screen, using a variety of different display colors. Antonio Damasio and his colleagues used brain-imaging technology known as positron emission

tomography, or PET, to search out the brain regions activated or deactivated when feeling anger, sadness, happiness and fear. Thirty-nine study participants were asked to recall 'personal emotional episodes' powerful enough to evoke each of the four emotions. The resulting brain images were then combined for all the study subjects, using statistical techniques to eliminate individual differences, producing a single composite image of each emotion lighting up the brain. These images were then compared with a baseline picture of the brain in a neutral emotional state. The researchers were left with a unique snapshot of just those brain regions activated or deactivated by each of the target emotions.

Similarly, these emotional and mental states are reflected in real-time in our super magma bodies by changes in shape, brightness, contrast and colors in different parts of the body; and the body as a whole. Magma bodies can change colors because they are thermochromic and can also change their degree of opacity. According to Leadbeater, every area of the physical-biomolecular brain is mapped onto our magma bodies. Hence, brain activities in the biomolecular bodies can be correlated to changes in the appearance of super magma bodies.

A metaphysicist who observes and interprets the colors and other attributes of a magma body is no different from a doctor observing a CAT scan or MRI of the brain to diagnose a patient. Many 'seers' attribute these colors to various mental or emotional thought patterns and behaviors—in the same way that neurosurgeons today view a brain scan in real-time and attribute emotional and mental states to the display colors, intensity, formations and locations of these changes. Nevertheless, interpretations, even of X-Ray images, CAT scans and MRIs are as much an Art as it is Science. An intern doctor may have a lower probability of getting it right than an experienced brain surgeon.

Surprise, Awe and Joy

Leadbeater observes that surprise is shown by a sharp contraction of the magma body, accompanied by an increased glow if it is a pleasant surprise and by a change of color to usually brown and grey in the lower part of the ovoid when it is not. Awe swells the devotional part of the causal body and the striations become more strongly marked. Joy generates an additional brightness and radiance and produces ripples on the surface of the magma body. General cheerfulness, in addition, produces bubbles and a calm serenity which is pleasant to see.⁶

Pre-occupation with Certain Thoughts and Subjects

If a person is preoccupied with certain types of thoughts, parts of the magma body bulge and brighten in color. This breaks the symmetry of the ovoid. In many people such bulging is permanent, which usually means that that thought type is steadily dominating the person's mind. If, for example, a person takes up some scientific study, directing his thoughts to that subject much more than before, the first effect will be the bulge, as discussed earlier. If the person keeps his thoughts on the subject constant, the bulge will gradually sink back into the general outline of the ovoid, but the band of its color will become wider.⁷ In other words, the ovoid will 'accommodate' new thought types over time into its generally symmetrical shape. If the person increases the amount of thought in the subject, the bulge will remain even though the band of its color has widened. The more an individual develops his mental and emotional states positively, the larger will be the top of the ovoid—so that the magma bodies have the appearance of a reversed egg-shape, with the small end at the bottom. The natural tendency, however, is for the symmetry of the ovoid to re-assert itself by degrees.⁸

Magnetic Turbulence caused by Sudden Emotion

The matter in magma bodies, in the liquid state, is in ceaseless motion according to Leadbeater. When the astral body is disturbed by any sudden emotion, all its matter is swept about as if by a violent hurricane, so that temporarily the colors become mixed.⁹ However, due to the natural tendency of magma to separate into different regions—based on density and temperature, the different types of matter which reflect or emit these various colors will sort itself once more into its usual zones. Even then the matter is by no means at rest, as the particles are all the time rushing around in these zones, though rarely leaving their own belt and intruding on another.¹⁰ Just like in the biomolecular brain, therefore, there is both localisation of activities and plasticity in the magma body. Strong, magnetised turbulence occurs in the Sun, clusters of galaxies and also in our super-magma bodies in the liquid state, when worried or troubled.

Changing Appearances

It is well-documented in the metaphysical literature that super magma bodies can change their appearances—almost at will. Persistent thought patterns play an important part in the appearance of super magma bodies. For example, the bodies can display a variety of clothes, skin and hair. How is it possible for the body to change shape, color and its features within a blink of an eye? In Marian and other religious apparitions even the fine details of period costumes and hair can be seen. The super magma body may be

using a technology that is similar to 'plasmavision' and LCD technology combined. Each particle in its body (which is much smaller than a pixel in a TV) can transform itself into various colors—just as the cells of the biomolecular bodies of chameleons and squids do. The effect is so real; it is indistinguishable from 'real' clothes and skin. For the etheric double, the appearance and feel of the body is almost exactly the same as the biomolecular body. Nevertheless, these changes in appearance occur mostly on the surface of magma bodies—they are superficial.

A liquid magnetic froth, created and studied by University of Paris researchers, Cyrille Flament and her colleagues, can display reversible, magnetically controlled patterns on its surface. Combining oil with a magnetic fluid, and placing the resulting froth between two glass plates, the researchers applied magnetic fields to create 2d patterns consisting in some cases of 4-to 7-sided 'cells' of oil separated by magnetic fluid. Decreasing the intensity of the magnetic field could change, for instance, the number of 5-sided cells. Unlike other froths, such as a soap-and-water mixture, the pattern can return by increasing the strength of the field again. A bar magnet on top of the froth introduces an instability. However, once the magnet is removed, the pattern returns. These studies throw light on how our super magma bodies change their appearances through the effect of magnetic fields on magma. Magma, particularly in the liquid state, is a magnetic fluid.

Patricia Cladis of AT&T Bell Labs uses liquid-crystals as a miniature laboratory for studying phase transitions. Heating one end of a sample and cooling the other end, Cladis found that the phase interface between a pure liquid state and a liquid-crystal state features spatial patterns (stripes with a characteristic 'wavelength').

Striations and Stripes

'Striations' are similar to 'stripes' and have been observed in our magma bodies by Leadbeater. Like the bands on Jupiter, striations form in super magma bodies because magnetic plasma has a natural tendency to separate according to densities and temperatures. These observed striations in our subtle bodies give us further evidence that our higher energy bodies are indeed composed of magma. According to Leadbeater, in spite of the intensely rapid motion of the particles among themselves, the lower causal body has at the same time a kind of loose organisation. There are certain striations in the body which divide it more or less irregularly into segments, each of which corresponds to 'a certain department of the physical brain, so that every type of thought should function through its duly assigned portion,' according to Leadbeater.¹¹

Super Magma Bodies & Features of the Sun

As expected, super magma bodies have many features similar to the visible Sun—which is after all a hot ball of standard magma.

Coronas, Granulation and Spicules

Coronal auras and discharges, granulation and spicules are all features associated with the Sun and super magma bodies—the latter, as seen by clairvoyants. The bright coronal aura of the Sun and the aura of super magma bodies are similar. Coronal discharges and flares can occur suddenly on the Sun. The various particles that are discharged, together with these flares, are carried by the Sun's plasma wind to cause magnetic storms on Earth.

They were all together. Suddenly, from heaven there came a sound like the rush of a violent wind, and it filled the entire house. Tongues, as of fire, appeared among them, and a tongue rested on each of them.

The Christian Bible ¹²

As noted previously, in demonstrations by Dr Thelma Moss, a magnet near an aura generated 'tendrils of energy.' A strong magnetic field above the heads of a group of persons would cause a coronal discharge from their super magma bodies. Persons, who have spent days of prayer and meditation in relative isolation, would be able to see the discharge because they would already have transferred their locus of awareness to higher frequency bodies. The magnetic field itself may be generated by a large super magma body.

Spicules are short-lived phenomena, corresponding to rising jets of gas that move upward and last only a few minutes on the Sun. Spicules can also be seen in the coronas of super magma bodies. In a semi-darkened room move your hands together so that the fingers touch. Then observe as you move the fingers away, relaxing the eyes. Most people would be able to see spicules within the halo around their fingers.



The Physical, Astral & Causal Bodies

Generic Descriptions of Magma Bodies

It is important to note that the descriptions given here are 'generic' descriptions of the bodies. For example, our physical-biomolecular body could be described as largely composed of water, with structures such as legs, hands and a head. If we develop these descriptions we will meet with a variety of differences. The physical body of a Chinese person looks very different from a Caucasian's. Even within the same race there are significant differences.

So the astral body of one person can be very different from another astral body—although generically they are the same. They could be different in terms of their colors, their shapes (whether egg-shaped, reverse egg-shaped or irregularly shaped), their brightness, their sizes and other attributes. So in practice, even when talking about one type of body, we have to bear in mind that you will actually meet with a wide variety of 'light-bodies' in super magma universes. Furthermore, many of these bodies may be non-human. You may encounter shapeless amoeboid low-density magma bodies, irregular balls of light which change in shape while in motion or streaks of light. All of these are 'magma bodies.'¹

Basic Shape of Super Magma Bodies of a Human Being is Ovoid

The basic shape of super magma bodies of humans and many other beings is ovoid or spheroid (depending on the content within). The primate figure inside the ovoid of a human being can be considered an artifact of the bio-molecular body—specifically the genes of a specific evolutionary lineage on Earth at a point in time.

The central channels in the magma ovoid have been observed by Barbara Brennan and other metaphysicists to extend out beyond the physical-biomolecular body form. The chakras are also noted to extend beyond the boundaries of the form outlined by the biomolecular body. This shows that the chakras and vertical power current channels are native structures within the auric shell which would have developed within the magma bubble even if the biomolecular primate body form or its holographic projections were not present. With the primate form present, however, the original spheroid is stretched to become an ovoid. Furthermore, interdependencies and interactions develop between the biomolecular form and the rest of the content in the magma bubble.

The bodies of humans in super magma universes are generally ovoid balls of light. The biomolecular form inside is a hologram projected by DNA, which has been modified by our thoughts and sedimented more densely with magma.

The Physical Bodies

The first set of bodies is the physical bodies which include the physical-biomolecular; and the lower and higher physical-etheric bodies (also known as etheric doubles). The physical-biomolecular body is composed of 60-70% of water. If we include the insides of cells, it is composed of 90% of water. Even the brain is 90% water. Considering that magma makes up more than 99% of the universe, the biomolecular body is in fact unrepresentative of life-forms found in the local multiverse. It is more of an anomaly in a magma multiverse. The physical-etheric body, which is the first super magma body, is more representative of life-forms in the local multiverse. Being a super magma body—it is like the other super magma bodies, an electromagnetic body—not a biomolecular one. The electromagnetic (super magma) bodies associated with humans are extremely light and resilient.

According to Barbara Brennan, the physical-etheric body (in its crystalline state) is 'like a sparkling web of light beams.' The web-like structure of the etheric body is in constant motion. To clairvoyant vision, the etheric body consists of a definite structure of lines of force and sparks of bluish-white light move along these lines, according to her.² Brennan's observation that the energy flows along lines of force confirms that these are Birkeland

currents flowing in the etheric body (i.e. currents that flow along magnetic field lines). It also confirms that the etheric body is a super magma body. Based on her observations, the etheric body extends from one quarter to two inches beyond the physical body and pulsates at about 15-20 cycles per minute. The pulsations are likely to vary with activity—just as heartbeat varies with activity. The color ranges from light blue to gray. The vortexes or chakras are similarly colored.³

The Etheric Double is a Physical Body

The etheric double and the physical-biomolecular body are components of the physical body. Both bodies exist in the physical universe which has a spacetime signature of 3 spatial dimensions and 1 time dimension (although the etheric double lives in a higher energy universe which is spatially-reversed). Johannes Fisslinger, a metaphysicist, says that although the 'ethereal body' is normally invisible to the human eye, it is a substance belonging to the physical world; although of a higher frequency than gross matter. It has been described as a fog-like, indistinct substance about one-half to two inches around the body. According to him, people with keener perception are able to recognise more details.⁴

Annie Besant says that under the term physical body must be included the Sthula Sharira (the physical-biomolecular sheath or body) and Linga Sharira (the physical-etheric sheath or body)—since they both function on the physical plane, are composed of physical matter, are formed for the period of one physical life, are cast off at death, and disintegrate together in the physical world when a person passes into the astral magmasphere. According to her, as long as we cannot pass out of the physical world, we are using one or the other of these physical vestures; they both belong to the physical plane by their materials, and cannot pass outside it; consciousness working in them is bound within their physical limitations, and is subject to the ordinary laws of space and time.⁵

Many people can see etheric manifestations because the frequency of the etheric component is very close to the ordinarily visible biomolecular component of the physical body. What scientists classify as super particles (under Supersymmetry theory) are mostly physical-etheric particles. Since the etheric double is so close in frequency to the biomolecular body, these shifts in the locus of awareness to the etheric double are quite common in 'everyday' waking consciousness and we are already very accustomed to its sensations.

[It was] several moments before I realised that I was not in my normal physical body. Given that we are discussing a field of

electrical energy you would be entitled to imagine it must feel different. Yet it does not. Subjectively, you can scarcely tell the difference. I felt I had my normal weight. I seemed subject to gravity.

J H Brennan ⁶

According to Robert Monroe, the 'Second Body' is visible under certain conditions. He argues that to be visible, it must either reflect or radiate light in the known (electromagnetic) spectrum, or at least a harmonic in the area. There evidently are conditions where a fully conscious observer can be visually aware of the presence of the Second Body, he says.⁷

In the 1920s Dutch physicists, Drs Malta and Zaalberg Van Zelst claimed that the physical-etheric body is capable of expanding 40 million times its normal size and contract by 6.25 million times. According to them, it was composed of 'extremely small and widely separated' atoms and had a density of 176.5 times lighter than air and weighed, on average, 69.5 grams (or about two-and-a-quarter ounces).⁸ The description that the atoms were widely separated means that the particle density in the body was low. Furthermore, it would also imply that these 'atoms' had a similar net electric charge as they repelled each other to cause the low density. This suggests that the matter was composed of plasma.

Barbara Brennan also includes a lower emotional (etheric-liquid) and a lower mental (etheric-crystalline) body under 'Physical Bodies.' These are the liquid and crystalline states of the higher etheric double. Collectively, the etheric bodies (both liquid and crystalline) are called the 'etheric double' and are closely interconnected with the biomolecular body. Many times, as noted by Brennan, however, these liquid and crystalline bodies, associated with the etheric double, appear to act as one confused form.⁹ Leadbeater has identified several states and densities of etheric matter. These appear to correlate to the lower emotional and mental bodies identified by Brennan. All the physical bodies (the biomolecular and the super magma etheric doubles) operate as one integrated body most of the time and usually disintegrate, decompose or die at about the same time.

The famous Australian metaphysicist, Robert Bruce, observes that during sleep, the etheric body expands and opens (i.e. it becomes larger and finer) in order to absorb and store energy within it. After sleep, the energy body contracts and forms a dense sheath surrounding the body, close to the skin.

Higher and Lower Etheric Doubles

There is much evidence that there are at least two etheric doubles—of higher and lower energies. Although etheric projections have been reported, some metaphysicists do not believe that the etheric double can actually separate from the biomolecular body because it supports the tissues and biochemical activities in the biomolecular body and gives it structural integrity. Etheric projections are therefore executed by the ‘higher etheric double’ (which lives in a spatially-reversed higher energy universe—a mirror of our universe). The ‘lower etheric double’ is so integrated with the biomolecular body that any separation could cause the death of the biomolecular body. There are other observations which also support the existence of two etheric doubles. For example, during the intensive phase of the death process of physical bodies, which will be discussed later, we are forced to assume another etheric double, to be consistent with the metaphysical evidence.

The Astral Bodies

The second set of bodies in the energy ladder is the higher and lower astral bodies—which can take on both crystalline and liquid states. Unlike the etheric-double, the astral body does not duplicate the physical body. This evidences that we are in a completely different universe, with a different spacetime signature.

Once you succeed in projecting into the Astral Plane, my experience has been that your astral body never mirrors the physical. Why this should be so, I have no idea, but it is borne out by direct observation.

J H Brennan ¹⁰

According to Brennan, the variation is extreme and could not be described as any sort of body-image distortion. In one case, he reported that ‘the projector was a small blonde-haired, blue-eyed woman with a squarish build and clearly defined features. Her astral body was, however, black-haired, brown-eyed, of average height and slightly plumpish build. It also gave an appearance of a younger woman by perhaps as much as 20 years.’¹¹

According to Leadbeater, astral matter in the astral ovoid congregates more densely around the structure of the physical-biomolecular body (actually the holographic projection of the physical-biomolecular body—this will be explained later). This form is retained for a long time, even when the astral body is temporarily withdrawn from the binding forces of the physical bodies at night and permanently after death. Thoughts, however, have a powerful influence on astral matter and can readily shape it. A man who

habitually thinks of himself as younger than he actually was at the time of his death will gradually come to present a somewhat younger appearance in his astral body.¹² The astral bodies inhabit the astral universe which has a spacetime signature of four spatial dimensions and one time dimension.

The Causal Bodies

The third set of bodies in the energy ladder is the higher and lower causal bodies—which can also take up crystalline and liquid states. The causal body in its crystalline state is structured and is composed of still finer substance than the astral body. It expands and becomes brighter when its owner is concentrating on mental processes.¹³ The bodies inhabit the causal universe which has a spacetime signature of five spatial dimensions and one time dimension. The causal body in its liquid state enables spiritual ecstasies. The lower crystalline state enables the production of multi-dimensional images of thoughts while the higher crystalline state does not generate any objective images—simply a vibration, or more accurately, an acoustic wave in the magma of the causal body, when thoughts occur. The latter is associated with abstract thoughts.

The higher causal body in its crystalline state has the appearance of a crystal of pure (super) light or a glittering diamond. Perhaps, this is also what has been described as the ‘divine’ spark. This body actually marks the end of personal bodies. Crystals of pure (standard) light have been created in the laboratory. The Catholic saint and doctor of the Church, Theresa (of Avila)¹⁴, Siddhartha Gautama¹⁵ and many others have characterised the soul or the mind as luminous crystals or diamonds.



Inter-Body Interactions

Interactions between Dark & Ordinarily Visible Matter

According to current dark matter theory, dark matter generally does not interact with ordinarily visible matter except through mutual interactions involving their gravitational fields; and weak nuclear forces.

Tuning into Dark Matter

Outside of current dark matter theory, however, in the metaphysical literature, there is evidence that dark matter can interact with ordinarily visible matter in other ways. Since our invisible super magma dark bodies are (super) electromagnetic bodies, the interactions studied in electromagnetics have a direct relevance.

Dark matter cannot be seen or felt because the electromagnetic spectrum to which it relates is beyond detection ordinarily by both our senses and our current scientific instruments. This means that the electromagnetic spectrum relating to dark matter is either significantly lower or higher in frequency than what scientific instruments can currently measure.

Theoretically, therefore, if there is a way in which the frequency of particles making up ordinary matter can be increased or decreased significantly the matter should disappear and become invisible to our senses and scientific instruments. Conversely, if the frequency of particles making up dark

matter is increased or decreased, the matter would become visible to us or be detectable by our scientific instruments. Our physical instruments made up of the matter that is visible to us, however, cannot detect the dark matter object directly—it is only when it falls within the known electromagnetic spectrum that we can see or measure it. Dark matter objects in the lowest frequency higher energy universe – the physical-etheric universe - can only interact with ordinary matter if their energy levels temporarily fall and ordinary matter condenses around them. Dark matter can also interact with ordinary matter through the scientifically recognised phenomena of sympathetic resonance and induction.

Sympathetic Resonance

In music, we note that the frequencies of certain notes have mathematical relationships with certain higher or lower notes. For example, the 'C' note is present both in higher and lower octaves. If the 'middle C' in a piano is struck, the string (inside the piano) relating to the 'high C' vibrates or resonates sympathetically with the 'middle C.' The frequency of the 'high C' is exactly double that of 'middle C.' The principle of sympathetic resonance has been used in many scientific instruments, including magnetic resonance imaging (MRI) machines which are common medical imaging tools used these days.

If particles of dark matter vibrated at a certain frequency, this could be detected in ordinary matter if there are certain mathematical relationships between the frequencies of both types of particles, such that the ordinary particle resonates sympathetically with the dark matter particle. The frequency detected in the ordinary particles will, however, be a correlate of the higher or lower frequency of the dark matter particles. It is important to clarify that any instrument which resonates sympathetically to the frequency of a dark matter particle is not directly measuring the higher or lower frequency of the dark matter particle but its correlate which comes within the detectable segment of the electromagnetic spectrum in our ordinarily visible and measurable universe.

Induction

The word 'induction' is used in a variety of contexts in English. In electromagnetics, induction is defined as the process by which an electrical conductor becomes electrified when near a charged body, by which a magnetisable body becomes magnetised when in a magnetic field or in the magnetic flux set up by a magnetomotive force, or by which an electromotive force is produced in a circuit by varying the magnetic field linked with the circuit. In all these cases, electrical and magnetic fields of one object has

been induced or created in nearby objects.

Even if we are not able to detect a magnetic or electrical field generated by a dark matter object directly, it may be possible, because of electromagnetic induction, to induce an effect on an ordinarily visible object in certain circumstances. According to Dr John White and Dr Stanley Krippner the 'Universal Energy Field' permeates all space, animate and inanimate objects; and follows the laws of harmonic inductance and sympathetic resonance.¹

The Lowest Energy Super Universe

Apart from induction and sympathetic resonance, the lowest energy super universe or the lower etheric universe is likely to be implicated for a variety of effects on our visible universe in the near future. Electric and magnetic fields generated by the universe's etheric double orders the large-scale structure of the visible universe. The physical-etheric body also gives structural integrity to the human physical-biomolecular body. This super universe is at the edge of our instruments' measuring abilities—however the magnetic and electric fields generated by mega structures within that universe can be measured through the effects they have on visible matter in our universe. A good example would be the invisible filaments in the universal web, which will be discussed in more detail in the next Chapter.

Seeing the Bodies

Respected metaphysicists are generally in agreement that the various invisible bodies can become visible by tuning into their frequencies—just as you can tune into a radio or TV program from a particular station by changing channels (and thereby change frequencies). According to Barbara Brennan, by changing her 'higher sense perception' to different auric vibrational levels (or frequencies), different levels of the auric field become more clearly defined.²

Antennae and Tuners within Super Magma Bodies

Plasma Antennae

A plasma antenna is an antenna that employs plasma as the guiding medium for electromagnetic radiation. Conventional antennae employ either metal to support antenna currents necessary for radiating electromagnetic fields or dielectric materials, such as plastics, to redirect or reform an electromagnetic wavefront. The plasma antenna concept, on the other hand, is based on a sealed glass tube containing a gas. When an electromagnetic pulse is applied to one end of the tube, the energy from the pulse ionises the gas inside to produce plasma. The high density of

electrons within this plasma makes it an excellent conductor of electricity, just like metal. However unlike metal, once the voltage that creates the plasma is switched off, the plasma rapidly returns to a neutral gas and the antenna in effect, disappears. A fluorescent tube can illuminate and behave as a plasma antenna.

Tuners

A photonic crystal is to photons (particles of light) what a semiconductor is to electrons. Photonic crystals reject electromagnetic radiation lying in certain frequency ranges or 'bands' in the same way that semiconductors reject electrons in certain energy bands. The exclusion comes about by a careful interleaving of materials with very different indices of refraction. An antenna mounted on a photonic crystal has been demonstrated by scientists at the MIT Lincoln Lab and Bellcore.

Elliott Brown of Lincoln Lab and his colleagues built a photonic crystal-antenna setup which can couple microwave radiation to devices on integrated circuits. This configuration allows integrated-circuit devices to receive microwave radiation, or conversely, convert electric current to microwave signals.³

Super magma bodies in the crystalline state or containing crystalline components with different indices of refraction make ideal semi-conductors to filter incoming waves from the electromagnetic magma environment. Super magma bodies are known to be excellent tuners in the metaphysical literature. Barbara Brennan explains that it is a common practice for science to build instruments that filter out extraneous wavelengths and then to make observations within only a narrow wavelength band. Observing the Sun in this way yields pictures of the solar atmosphere at different heights. That is how we get pictures of sunspots, or of solar flares, which look very different from the energy deeper within the Sun or in its outer layer, the corona. The same principles, she says, can be very useful in auric field observations.⁴ This is similar to tuning into different TV channels or sliding the frequency selector in a radio.

Plasma antennae and tuners within super magma bodies allow the owners to receive or transmit thoughts, images and sounds from or to other super magma bodies. Tuners within magma bodies allow the owner to switch frequencies within a particular band. However, to change bands, the locus of awareness must switch to a different body. According to Leadbeater, if a man who has developed astral and causal consciousness focuses himself in the physical brain as in ordinary life, he will see perfectly the physical bodies of his friends, and will at the same time see their astral and causal bodies, but only dimly. In a split second, though, he can change

focus so that he will see the astral quite fully and perfectly. In that case, he will still see the causal and physical bodies, but not in full detail.⁵ When the locus of awareness shifts to a particular body, resonating at a different frequency, a different universe is observed.

Turning Points

Generally, not more than one universe; not more than one body is experienced. However, at 'turning-points' (such as during the death of the bodies or just before and after sleep) the locus of awareness oscillates between different bodies—including the magma ovoid bodies and the particle-bodies (the nuclei) within—giving rise to multiple loci of awareness. Subsequently on waking, when the sensory systems of a particular body start 'measuring' the environment, a particular body and universe is observed. At these turning points, briefly, more than one body and universe can be experienced at the same time. 'Dual consciousness' has been recorded in the metaphysical literature during these turning points.

Dual Consciousness

In certain situations, for example, in the prelude to 'astral travelling' and in the initial phases in the death process (including near-death experiences), dual-consciousness—corresponding to two bodies has been reported. These are situations when we are straddled between two or more universes; and have not locked-in or tuned-in into any particular universe. These universes are superimposed on each other. Medical doctors generally interpret these types of events as 'hypnogogic' or 'hypnopompic' hallucinations. Brad Steiger reports that students of astral projection have frequently commented on the phenomenon of dual consciousness; i.e. they still have complete awareness of their body, its functions and the room it's lying in while they are travelling in their astral to visit a faraway place.⁶

Hereward Carrington records in 'Higher Psychological Development' that Dr Van Eeden of Holland conducted some extremely interesting experiments upon himself; in his 'dream body.' He endeavored to transfer his locus of awareness to this body, so that he remembered everything that transpired during sleep. In one case, he remembered clearly that he was asleep in bed, with his arms folded across his breast; and at the same time he was looking out through the window and saw a dog run up and look at him through the glass, and run away again ... he had the extreme sense of 'duality of consciousness of two bodies.'⁷ This dual consciousness can also be experienced from the perspective of a higher energy dark or subtle body.

Locus of Awareness

Where is the locus of awareness? Analyzing the human (biomolecular) body, we know that sensory signals from a finger are transmitted via nerves to the brain—which interprets the signal. Where does consciousness manifest—in the finger, in the nerve or in the brain? All components are in fact necessary for consciousness to manifest. If the hand was cut at the wrist, your sensory awareness would terminate at the stump. If it was cut at the elbow, your sensory awareness would terminate at that stump.

In the same way, each body is analogous to a ‘stump’ in a sensory system which sends signals ‘upwards’ for processing. If it cannot be processed by the brain in the lower-energy body, it is transmitted upwards to the next body. The information about physical sensations which is attended to by the physical brain is sent to the astral brain which generates emotions, and the lower causal brain—which generates concepts.

Nevertheless, you may become aware of your left foot at one moment and then your right foot a second later. You can also bring your awareness ‘higher’ and be aware of the left and right foot at the same time. In other words, signals from both the physical and astral bodies can be attended to, if required, from an even higher energy body.

For complex cognitive activities, the physical brain acts merely as a conduit. For example, the limbic system in the human brain interacts closely with not only the endocrine system in the physical body but also the astral body. The physical-biomolecular brain is mapped onto the astral and causal bodies. Signals are sent back and forth between these bodies. The quality of the interface between these bodies is an important factor to take into account when considering the evolution of intelligence and awareness in a life-form.

Each body may be considered the cell-body of a nerve, with an attached axon (the ‘silver cord’). The axon’s terminals pass relevant signals to the next body across a synapse. In this way, information is passed on to a higher body. Similarly, signals may be received from the reverse direction. Based on this analogy, we are basically nerve cells in a universal body.

Interactions between Bodies

Privacy in the Astral Word

Is your astral body visible to other entities in the astral universe right now, while you are awake in this universe? According to Leadbeater, most beings in the astral magmasphere are not aware of our ordinarily visible physical bodies. They quite clearly and definitely are not aware of ordinary physical matter of any kind. But they are aware of the astral counterpart of physi-

cal matter.⁸ Bhagwan Shree Rajneesh says that ‘in the entire Existence,’ all of the bodies are forever present. Awake or asleep, active or dormant, ugly or beautiful, they are always there. Take a piece of metal: all of the seven bodies are present in it, but all of the seven are asleep; all of the seven are dormant and inactive. Take a plant—its first body has become active. There is the animal: his second body has (also) become activated. In Man, his third body has (also) become activated. If the fourth body is activated, (re)birth on higher planes begins.⁹

The encounters between your astral body and other astral beings would be rare while you are awake for a number of reasons. Firstly, most human beings live on the crust of the Earth. This is coincident with only one astral ring—i.e. the sixth. Most human beings do not stay at this level after the death of their physical bodies. Secondly, what the beings in the astral magmasphere see is your astral body—which becomes conspicuous mainly when you are experiencing strong emotions.

Thirdly, there is a thick electrified sheath or membrane over the magma ovoid. This offers protection against electromagnetic and other intrusions. Leadbeater notes that when a person functions in the causal body he leaves the astral body behind him in a condition of suspended animation, along with the physical. If he finds it necessary he can easily surround the torpid astral body with a stronger shell, or he can generate vibrations in it which will make it impervious to other beings.¹⁰ When the physical body is asleep, he may be functioning in his astral body. If some person in the physical plane disturbs his body, the physical body reacts and the astral body is ‘reeled-in’ (by a ‘silver cord’ or a ‘plasma wire’) instantly to escape the threat. Similarly, when the astral and causal bodies are threatened, it is possible for the physical body to sense it and react to it by sending off emotions or thoughts which counter the threat—for example by changing the strength and the polarity of the electrified sheath around the ovoid to repel foreign intrusions—in a sense acting like the immunity system in the biomolecular body.

Quantum-Like Engagements

Fourthly, the rules of engagement used by our super magma bodies in the astral magmasphere are ‘semi-classical’ or ‘near-quantum’—not classical, as in the physical universe. This means that super magma objects or beings would possess some quantum weirdness. For example, these bodies would have more pronounced wave characteristics. Also they may be in a superposed state until observed. Robert Monroe asserts that once he has been in the presence of a ‘non-physical entity’ (more accurately, super-physical entity) for a while, it discards its appearance and he perceives nothing,

although he continues to sense ‘the radiation that is the entity.’ Several of Joel Whitton’s patients, who assumed ‘in between life’ states, said they didn’t even have a body unless they were thinking. One man described it by saying that if he stopped thinking he was merely a cloud in an endless cloud, undifferentiated. But as soon as he started to think, he became himself.¹¹ This is no different from an electron wave, which is superposed between different states, which collapses as a particle when observed. Descartes statement ‘I think therefore I am’ couldn’t be truer in the quantum-like astral and causal universes.

Even after collapsing as a body in a particular universe, because they have quantum characteristics, these bodies may still be difficult to locate precisely because of uncertainty in their position and momentum—consistent with Heisenberg’s uncertainty principle. The bodies may be in several places at the same time as they are near macro-quantum objects with probabilistic measures of existence.

According to Roger Penrose, any physical object, itself made out of individual particles ought to be able to exist in such superpositions of spatially widely separated states, and so ‘be in two places at once’! The formalism of quantum mechanics makes no distinction, in this respect, between single particles and complicated systems of many particles. He asks, ‘Why, then, do we not experience macroscopic bodies, say cricket balls, or even people, having two completely different locations at once?’ According to him, this is a profound question, and present-day quantum theory does not really provide us with a satisfying answer.¹²

According to Ho Mae-Wan, in her article ‘Nature is Quantum, Really!’ the two-slit experiment has been repeated with increasingly massive particles and essentially the same results have been obtained. She says that if ‘buckyballs’ can show the same interference patterns perhaps it might also be shown by a small protein. (A ‘bucky ball’ is a molecule of sixty or seventy atoms of carbon arranged in a structure resembling a geodesic dome.) A molecule of sixty atoms is a relatively large entity, as compared with an atom. And yet, the same mysterious interference pattern appeared when Anton Zeilinger and his colleagues ran their experiments. This demonstrates that the duality between particles and waves manifests itself even for larger entities, she says.¹³ Professor Zeilinger, who leads a group in the University of Vienna engaged in these experiments, said, when giving the 16th Schrödinger Lecture in London, that his team is planning to try a small virus next, and is quite confident that it too, will behave as both wave and particle. There is quite a gap between a virus and a mouse, or a human being, but Ho Mae-Wan asks:

‘Who is to say we are not both a wave spread out in space and a seemingly solid body that can bump into furniture? Where does the quantum world stop and the classical start?’¹⁴

According to her, Schrödinger would have been astonished by all these findings if he were alive today. Under the ‘Copenhagen interpretation’ in quantum physics, the act of measurement ‘collapses’ the quantum superposition. Recent experiments show, however, that if the connection to a measurement device is very weak, this collapse would not happen and there would be macro quantum superpositions. An experiment by Terry Clark and his team at the University of Sussex in Britain was set up with a weak measurement system. The results showed that the SQUID ring set up in their experiment could exist in a quantum superposition of both flux and charge modes. (The flux and charge modes are two contradictory modes.)¹⁵ If ‘Schrödinger’s cat’ was this SQUID, it would mean it would be both alive and dead at the same time.

When any of these bodies are actualized (i.e. when the locus of awareness shifts to that body) it means that the particles making up the relevant bodies and corresponding to the particular sphere and ring materializes and consciousness appears simultaneously. Hence, a person actualizing himself in the astral magmasphere will find himself in a particular location in a particular ring. In our (classical) universe, classical objects do not dematerialize instantaneously when they are not being actualized or materialize instantaneously when they are actualized. This is because of the high degree of decoherence and the entanglement of particles with the environment in this (physical) sphere. The degree of decoherence reduces dramatically as we move up to higher-energy quantum-like universes. Materializations and dematerializations are therefore the norm in higher-energy universes. In other words, all the bodies are present in every sphere. Some are activated and some are not. However, it is only when the body is conscious of itself (in other words, it observes or measures itself) that it actualizes or manifests in this or that universe. It manifests to interact with others. This is the manifest interactive-state (as opposed to the non-manifest superposed-state).

When the physical body falls asleep or dies, most human beings would actually operate within the astral universe. They locate others and are located by others through their ‘vibratory signature’ i.e. the composite frequency of their magma body. To a certain extent this is like wearing a transmitter around your neck or embedded in your body so that you can constantly be tracked! It is also the same way that your mobile phone works so you can be contacted even on the move. Nature is way ahead of us in mobile communications technology!

Actualization of Macro-Quantum Objects

Does a quantum object exist when we do not observe it? This has been a vexing question for quantum physicists. Imagine a tree which does not exist until observed. Let us say it is observed 1 hour apart, how does it interact with the environment in that 1 hour? We know the environment changes because of the existence of the tree—water is sucked into its roots, moisture is added to the atmosphere and solar energy is being converted to biological energy through photosynthesis. Of course, a tree is a classical object hence it is already entangled to the environment. But assume a near macro-quantum body (such as the super magma astral body). This body (with complicated internal dynamics) must necessarily interact with its environment even when we are not measuring it directly. If these bodies do not exist in an absolute sense the universe would not operate. Every part of the universe, whether being measured or not, is an integral part of the universe. If any part of the universe does not exist in an absolute sense, the universe does not exist.

Hence, we cannot conclude that the body does not exist in an absolute sense when we do not measure it. It exists—it does not exist. Both statements are true simultaneously. (In this case, Schrödinger's cat is both alive and dead.) The measurement process manifests the object relative to our frame of reference. David Bohm says, 'We should regard a quantum measurement as a manifesting process.'¹⁶

Actualizing Higher Energy Macro-Quantum Bodies

On this plane, therefore, only the biomolecular body is generally actualized. The etheric-double is partially actualized. Nevertheless, meditators, 'astral-travellers' and metaphysical researchers do actualize higher energy bodies according to their phase of research. This gives the higher-energy spheres and universes a 'private' quality because things do not manifest unless someone is conscious of it and dematerializes as soon as attention is drawn away from it. The rate of materialization or dematerialization decreases as we move down to lower-energy universes. In our universe, dematerialization (of the particles) can take as long as the age of the universe. Hence, things do not disappear if we do not observe them.

A person who is neither attracted nor repelled by any sensations from any universe does not actualize or materialize in any universe. This also means that the degree of decoherence has been reduced to zero (or coherence has reached its maximum). He remains in the implicate void and does not manifest in any universe. He realises he is not located anywhere.

Independent Existences

Does your astral body lead an independent existence apart from the physical body which you are not aware of? A body may be activated without you being aware of its existence. While reading this paragraph the reader would be aware of only his physical-biomolecular body, although he has already activated his physical-etheric, astral and causal bodies. According to Leadbeater, a man is using his astral body whenever he expresses an emotion; he is using his causal body whenever he thinks. But that is very far from him being able to utilize either of them as independent vehicles through which consciousness can be fully expressed.¹⁷ Bhagwan Shree Rajneesh says that even if the second body in an animal has begun to work, it does not mean that the second body has reached awareness: it only means it has become activated. According to him, there is a difference between the activation of a body and being consciously aware of it.¹⁸

The bodies work as an integrated unit. The thoughts that you are having now and the emotions you are currently feeling are the thoughts and emotions of your etheric, astral and causal bodies—although you are not consciously aware of these bodies. Your pancreas may be carrying out many complicated functions right now—you have activated it but you are not consciously aware of it. Even now you may not know its exact location. Its existence was only brought to your attention through education rather than direct observation in real-time.

When the physical body goes to sleep, though, the astral body becomes active when the locus of awareness shifts there. It appears that through relevant training, a person can consciously operate in his various bodies at will.

There are experimental metaphysicists who believe that the various bodies do carry out activities that are not directly related to other bodies (for example, J H Brennan). Both the heart and the kidney in our biomolecular bodies carry out sophisticated activities outside of our conscious control normally. Nevertheless, the kidney could not carry out its work if there was no heart and arterial system supplying nutrients. The heart also needs the kidney to live. Both appear to work independently but are coordinated with each other by the brain. Similarly, the activities of the various bodies appear to be carried out independently while being coordinated by a higher intelligence.

The locus of conscious awareness, however, is usually located in only one body at a point in time. During death or sleep the locus of conscious awareness shifts from one body to another—just as your locus of conscious awareness can shift from your right hand to your left hand—right now! According to J H Brennan, there is a possibility that your various bodies are already separated and active within their own inner worlds.¹⁹ However, until

conscious awareness is shifted to a particular (subtle) body, the body does not actualize or materialize in a particular universe.

Effects of Physical Interventions on the Astral Body

If the (physical-biomolecular) arm of a man, the branch of a tree, or the leg of a chair were cut off, would the astral counterpart also be removed? For mature life-forms, the astral body would be a coherent whole. If part of the physical body of the life-form is removed, the coherence of the living astral matter is stronger than the attraction towards that severed portion of the physical. Consequently, a substantial portion of the astral counterpart of the arm or branch will not be carried away with the severed physical fragment but be retained as part of the astral body—generating the sensation of a phantom limb. In the case of an inanimate body, such as a chair or table, on the other hand, there would not be the same kind of individual life to maintain cohesion. Consequently, when a physical object is broken the astral counterpart would also be divided.²⁰

Effects of Etheric or Astral Interventions on Physical Body

Biochemical Interventions

Dr Phillippe Collas stated in the April 2002 issue of Nature's Biotechnology journal 'We can take a skin cell from your body and turn it directly into a cell type that you need to treat a particular disease.' This is done simply by bathing the skin cells in extracts of the desired cells. In more preliminary work, they have made skin cells behave like nerve cells. Scientists currently do not have a clue on why this happens! Dr Thomas Zwaka of the University of Wisconsin, a medical doctor and molecular biologist, says that each cell still 'remembers' how to become any kind of cell in the body. Once they get older, though, cells are programmed and cannot change direction easily in development. In other words, young cells can change into any type of cell but older cells, however, would find it more difficult. This was exactly what Dr Robert Becker found in his experiments with salamanders. Salamanders are able to regenerate their limbs when they are mutilated. Soon after a mutilation a 'blastula' of undifferentiated cells grows around the wound. In experiments done by Becker, it was found that if a blastula was surgically removed from, say, where a hind limb would normally grow and placed next to a fore limb, a hind limb would grow. But this only happens if sufficient time elapses before the removal of the blastula. If the blastula was removed and placed without any delay next to a fore limb, a fore limb grows!²¹ Here again we notice that young cells grow into shapes that they are near to or are in contact with, but older cells retain their old behavior even if they are in a new environment. Why is this so?

Could cells and limbs have dark matter counterparts—just as galaxies are thought to have? Young cells would not have gathered sufficient dark matter to determine their fate. An individual life would not have been developed sufficiently to maintain cohesion. On the other hand, mature cells are coupled with their already developed dark matter counterparts—making it difficult to change their course of development. In homeopathy, solutions of antibodies may be diluted until no physical antibodies can be measured with our current scientific instruments. Despite this the solution generates reactions which suggest that antibodies are still present. Some speculate whether water contains the phantom imprint of the molecules that were once in it. An etheric double is as good as a ‘phantom imprint.’ Did the etheric double of the antibody remain in the water? If so, it shows that you can trigger-off the immune system of the biomolecular body with the etheric double of an antibody. The invisible etheric double could therefore induce biochemical changes in our physical-biomolecular bodies. The etheric double, like dark matter, cannot be directly measured by any scientific instrument currently.

Physical Interventions

According to Leadbeater, a purely astral object could be moved by means of an astral hand, if one wished, but not the astral counterpart of a physical object. To move an astral counterpart it would be necessary to move the physical object, and then the astral object would accompany it. One could no more move a physical object by moving its astral counterpart than one could move the rose by moving its perfume, he says.²²

All bodies of matter mutually attract each other through the gravitational force. The mass and weight of the astral counterpart of a physical body is usually a negligible percentage of the physical body. If you moved the Sun, the Earth would follow but if you moved the Earth, the Sun will not follow. Similarly, generally, if you moved the heavy and dense physical-biomolecular body, the astral body would follow but if you moved the astral body, the physical-biomolecular body will not follow. However, there are instances when the physical-biomolecular bodies can be moved by higher energy bodies.

(Human) Levitation

When the locus of awareness shifts to massive higher energy bodies during waking consciousness (developed through prolonged meditation and/or prayer) it can pull the biomolecular body along with it. The higher energy body seeks its own equilibrium point in the relevant magmasphere. Since these bodies have a net magnetic and electric charge they are pulled within

electrified sheaths in the magma environment. During waking consciousness, the biomolecular body's linkage with the higher energy bodies has not been severed (as what happens during death) or temporarily relaxed (as in sleep). This tug of the etheric body as it tries to soar upwards can be felt.

Saint Theresa (of Avila) describes it as 'an angel pulling on her.'²³ In these cases, too, quite frequently the locus of awareness can oscillate sporadically between the biomolecular and higher energy bodies. When a saint is engrossed in a spiritual experience in a particular heaven while in waking consciousness, the relevant higher energy body soars towards that electromagnetic domain (seeking its equilibrium point), pulling the biomolecular body. Levitation or gravitation (towards electromagnetic domains above or within the Earth's crust, respectively) of human magma bodies during advanced meditation or intense prayer gives us strong indirect evidence of the existence of higher dark magma bodies, just as a visible star orbiting around an invisible companion (in binary star systems) gives us evidence of the existence of dark matter stars.



Formation of Magma Ovoids

Formation of Galaxies versus Human Bodies

How do formless blobs get transformed into something as complex and beautiful as the Milky Way, with many billions of stars crowded into a dense, massive hub at the centre, and many others strung like pearls on the graceful spiral arms that orbit majestically around the centre?

Martin J Rees ¹

If galaxies were emerging now, astronomers should have spotted some objects having sizes and morphologies somewhere between well-defined galaxies and sheer empty space. We know of no such nearby, amorphous, 'half-baked' objects. Furthermore, the regions beyond the galaxy clusters—the intergalactic voids—don't seem to contain much matter, if any at all. Whenever and however the galaxies did form, they apparently did so very efficiently, sweeping up almost all the [normal] matter available and leaving little behind for further assembly.

Eric J Chaisson, 2005, Wright Centre for
Science Education, Tufts University

According to Anthony Dressler of the Carnegie Observatories, 'Saying we understand the broad brush detail of galaxy formation is like saying we know the bigger process of the birth of a baby.'² Metaphysicists would be struck with the similarities in the formation of the physical body in the human womb, based on traditional metaphysical theories, and the formation of galaxies, based on recent astrophysical theories. According to the 1998 Annual Report of the MPA (Max Planck Institute for Astrophysics) the universe is filled by dark matter which regulates the way in which structures grow from tiny seed perturbations in the early universe.³

The Web of Filaments

Robert Britt says that the early universe contained a series of threads and clumps, not unlike a spider web dappled with water droplets. This structure set the stage for the growth of galaxies and galaxy clusters seen today.⁴ Scientists think that ordinary and dark matter formed an immense filamentary web connecting clusters of galaxies in the early universe. This is, of course, the web of filaments, already discussed (in Chapter 9). Just as the etheric double of the universe generates a web of filamentary currents (or filaments) that plays an important part in the large scale structure of the universe, the etheric double of the human body generates a web of filamentary currents (or meridians) that is instrumental in developing the physical-biomolecular body of a human being.

In 1904 Annie Besant reported that 'during human antenatal life a single thread weaves a network, a shimmering web of inconceivable fineness and delicate beauty, with minute meshes. Within the meshes of this web the coarser particles of the bodies are built together. During physical life, prana [which is a plasma of charged super particles] courses along the branches and meshes.'⁵ This description echoes descriptions of features in cosmic plasma, already discussed. The growth of a web of filamentary currents in space, with charged particles coursing through it, is well-known in plasma cosmology.

Leadbeater reports that astral matter has an attraction for physical matter and follows very closely the contours of the physical body.⁶ Robert Britt says that dark matter and galaxies trace out the same shapes and structures and they become sculpted into nearly identical sheets and filaments, with vast expanses of near-nothingness in between.⁷ If astral matter is dark matter, then we are forced to conclude that some human beings (and possibly a variety of animals) can see dark matter using their higher-energy bodies; even if our current scientific instruments cannot.

In 1910 Annie Besant compared the formation of the Solar System to the process that goes on during the birth of a baby. She explained that the

process of individualization (in this context, the formation of the human body on the physical plane and within the various magma ovoids) is analogous to the building of the Solar System. She says, 'Out of the primeval matter of space, a slight mist first appears; the mist grows gradually denser as the particles aggregate more closely (i.e. they start 'clumping' like cold dark matter); eventually shapes are formed within the mist which become more and more definite, until a system is formed.'⁸ This description echoes scientific descriptions of the interaction of cold dark matter and ordinarily visible matter. Stuart Clark says, in the *New Scientist* journal, 'The filaments signpost the location of dark matter because the hot gas sits in its gravitational influence like mist in a valley.'⁹ Where the filaments intersect, galaxies form (generating definite forms in the mist).

The Universal and Human Physical-Etheric Bodies

The similarities between the theory governing the formation of the universe, according to Science, and the metaphysical descriptions of the formation of a physical-etheric body as a precursor to the biomolecular body is evident. The invisible web of filaments together with the dark matter that shapes them is in fact the lowest energy physical-etheric body of our universe. When we look out from Earth what we are seeing is the physical universe, shaped by the lower etheric body of the universe, each galaxy being shaped by an invisible gigantic chakra.

Astronomers say that the invisible filaments in space are detected only because higher density matter tends to accumulate and condense in these filaments. Similarly, the invisible chakra behind the galaxy is seen only because of higher density matter that accumulates and condenses in it. Galaxies (which are largely plasma bodies) are responsive to higher energy electromagnetic fields in the universe's etheric double. An invisible dark matter Sun behind the visible Sun has already been noted by Blavatsky (see Chapter 1). The formation of a variety of galaxies and their distribution in the universe is still a mystery to Science.

Black Holes

Black holes, like filaments are invisible. They are detected only because of their effects on visible (or measurable) radiation and matter. The classic view of black holes conjures images of gas and stars and even light being swallowed; and is associated with the collapse of dying stars. But black holes also create powerful (invisible) high-speed jets that race at nearly light-speed into surrounding space to ignite star formation. Wil van Breugel and Steve Croft of the Lawrence Livermore National Laboratory studied one of these jets slicing through a puzzling region of intense star formation

known as Minkowski's Object. The jet, they say, caused a dense gas cloud to collapse to trigger the birth of a star. The finding meshes nicely with a growing body of evidence suggesting that black holes are integral players in galaxy formation. Black holes have also been conjectured to exist in the centre of galaxies—including our own.

Croft says that the formation of massive black holes is critical to the formation of new galaxies. Robert Britt says that interviews with more than a half dozen experts reveals black holes as galactic sculptors. Black holes are shown to be fundamental forces in the development of the ultimate shapes of galaxies and the distribution of stars in them. Meg Urry, an astronomer and professor of physics at Yale University says, 'We believe black holes also play a critical role in the birth of galaxies.' There is evidence that galaxies actually did form around the earliest black holes. In 2000, astronomers found solid evidence that black holes lurk deep inside many and probably all galaxies that have the classic central bulge of stars. Further, an analysis showed a direct correlation between the mass in each black hole and the shape and scope of the bulge and the overall size of the galaxy.

This suggests that the 'invisible chakras' behind galaxies (as discussed in the preceding section) are in fact what scientists would identify as black holes or vortexes in space. When invisible filaments in space pinch, they collapse as invisible black holes and start to rotate when they suck in particles and matter from the ordinarily visible (or measurable) physical universe. (This process is identical to the formation of meridians and chakras in magma bodies.) Black holes are by definition dark matter (since they are invisible to our current measuring instruments). Ordinary matter has an affinity to dark matter and rotates with it forming galaxies.

Surprisingly, therefore, the study of the large scale structure of the universe has a direct relevance to the study of the formation of the human etheric body (and vice-versa). The formation of a web of filaments and vortexes in the physical-etheric body of a human being precedes the construction of a physical-biomolecular body. In the same way, the formation of an invisible web of filaments and vortexes in the physical-etheric body of the universe precedes the formation of the large scale structure of the physical universe. Unlike bodies associated with life-forms on Earth, however, the universe does not have a biomolecular body accreting on its higher energy bodies. There are only isolated spots in the universe, for example, our Earth, which has a biomolecular component attached to the higher energy bodies.

As discussed previously, meridians represent filaments through which charged particles flow in the super magma etheric double. Since dark matter interacts weakly with ordinary matter (assuming similar volumes of the

matter), the measurable global electromagnetic field of the electromagnetic etheric double is weak. Nevertheless, these weak electromagnetic fields have been found in numerous experiments to have a significant effect on biochemical activities in cells. According to Valerie Hunt, beyond the electrical frequencies of muscle, brain and heart, there is another field of energy, smaller in amplitude and higher in frequency. This electromagnetic energy is eight to ten times faster than the other biological electricity sampled from the body's surface, but only about one-half to one-third as strong as the millivoltage of a resting muscle.¹⁰

Living Plasma Bubbles

David Cohen reports in the journal 'New Scientist' that plasma blobs hint at a new form of life.¹¹ Physicists, Erzilia Lozneanu and Mircea Sanduloviciu, have created plasma spheres that can grow, replicate and communicate—fulfilling most of the traditional requirements for biological cells. They are convinced that these curious spheres offer a radically new explanation of how life began and were precursors to biochemical evolution.¹²

Most biologists think living cells arose out of a complex and prolonged evolution of chemicals that took millions of years, beginning with simple molecules through amino acids, primitive proteins and finally forming an organised structure. But according to Sanduloviciu and his colleagues at Cuza University in Romania cell-like self-organisation can occur in a few microseconds in a plasma environment. The researchers studied environmental conditions similar to those that existed on Earth before life began, when the planet was enveloped in electrical storms that caused plasmas to form in the atmosphere.

Lozneanu and Sanduloviciu inserted two electrodes into a chamber containing a plasma of argon—an ionised environment similar to the super etheric, astral and causal plasma environments. They applied a high voltage to the electrodes, producing an arc of energy that flew across the gap between them, like a miniature lightning strike. Sanduloviciu says this electric spark caused a high concentration of ions and electrons to accumulate at the positively charged electrode, which spontaneously formed spheres. The amount of energy in the initial spark governed their size and lifespan of the spheres. Sanduloviciu grew spheres from a few micrometres up to three centimetres in diameter.¹³

The Plasma Cell

According to Lozneanu and Sanduloviciu each plasma sphere had a boundary made up of two layers—an outer layer of negatively charged electrons and an inner layer of positively charged ions. A distinct boundary layer that

confines and separates an object from its environment is an important characteristic of a living cell, they say. The boundary plays an important role in the absorption and transformation of energy¹⁴ – much like the auric ‘shell’ or ‘sheath’ of super magma bodies. Trapped inside the boundary was an inner nucleus of gas atoms. A negatively charged luminous sheet surrounds a positive nucleus. An electric field appears between the boundary and nucleus, within which electrons are accelerated. The evolved sphere appears as a stable, self-confined, luminous and nearly spherical body. Lozneanu and Sanduloviciu describe a rhythmic ‘inhalation’ of the nucleus which mimics the breathing process of living systems.¹⁵

Life Signs

Sanduloviciu found that the spheres could replicate by splitting into two. Under the right conditions they got bigger, taking up neutral argon atoms and splitting them into ions and electrons to replenish their boundary layers. Finally, they could communicate information by emitting electromagnetic energy, making the atoms within other spheres vibrate at a particular frequency. ‘This is no different from the vibrating diaphragm in a telephone which enables information to be communicated from one point to another,’ says David Cohen.¹⁶

Pre-requisite for Biochemical Evolution

According to Sanduloviciu, plasma spheres are the first cells on Earth, arising within electric storms, and he believes that the emergence of such spheres is a prerequisite for biochemical evolution. Gregoire Nicolis, a physical chemist at the University of Brussels, says that view is ‘stretching the realms of possibility.’ In particular, he doubts that biomolecules such as DNA could emerge at temperatures at which the plasma balls exist.¹⁷

This could be a criticism of the Lozneanu and Sanduloviciu theory if we considered both the plasma sphere and the biochemical cell to be in the same universe. However, plasma blobs, bubbles or spheres formed in the super etheric, astral and causal universes, can effectively mould and provide structural integrity to a biochemical cell through ‘subtle electromagnetic interactions’ with the lower etheric double which is close in frequency to the ordinary physical universe.

The plasma sphere, like ball lightning, ceases after a relatively short lifetime under current conditions on the (low-energy) physical Earth, say Lozneanu and Sanduloviciu. They argue, however, that this was probably not the case when the spheres were created by a simple spark in the ionised environment that existed in prebiotic Earth – occurring in a medium presumed to be a plasma.¹⁸ They would, therefore, thrive in the current ionised

environments of the etheric, astral and causal Earths.

The magma etheric body is the precursor of the biomolecular body—as pointed out by many metaphysicists. According to Barbara Brennan, the etheric body consists of an energy matrix upon which the physical matter of the body tissues is shaped and anchored. According to her, the physical tissues exist as such only because of the field behind them; that is, the field is prior to, not a result of, the physical body. This relationship, she says, has been supported by Dr John Pierrakos and her, through the use of their ‘higher sense perception.’¹⁹

Sanduloviciu says that the cell-like spheres could be at the origin of other forms of life we have not yet considered. ‘There could be life out there, but not as we know it’ he says.²⁰ Indeed, there are magma-based life-forms in the very high-frequency astral and causal universes which current Science has hardly begun to explore. It simply does not have the instruments for it currently, unlike human beings who have operated higher energy bodies for a very long time. Sanduloviciu’s conclusions throw light on how life and entities can form in the super magma environments of the astral and causal universes.

Morphogenesis occurs in each Sphere

The Spark of Life

In ‘in vitro’ fertilizations the human embryo is given an electrical jolt to spark-off cell division. The purpose of this electrical intervention—which is a routine procedure in growing human embryos outside the womb, is not known to Science. Sanduloviciu findings support the view that this electrical intervention is required to form magma bubbles in the super magma environments of the etheric, astral and causal universes, prior to cell division.

Bubble Formation

After the electrical intervention, either in or outside the womb, a cascade of self-organisation occurs—an etheric magma bubble forms around the embryo, followed by astral and causal bubbles—each tiny bubble interpenetrating the other. Each spherical liquid-crystal bubble has a boundary made up of two layers—an outer layer of charged particles with one polarity and an inner layer of charged particles with the opposite polarity. Trapped inside the boundary is a *vibrating* nucleus of super particles. Between the nucleus and the boundary is an electric field.

Development of the Bubble into an Ovoid

It is interesting to note that according to scientists, dark matter formed the universe's first structures, where mysterious acausal 'quantum seeds' (or 'seed perturbations') caused matter to clump more densely in certain spots. Dark matter slid into these spots which grew into structures that merged to become giant clouds—or haloes—with millions or trillions times more mass than the Sun.

Similarly, the vibrating nuclei in the tiny magma bubbles causes dark matter (which includes astral and causal matter) to clump and magma ovoids to form. According to Annie Besant, when the permanent particles (the nuclei of magma bodies make up one category of permanent particles) start to *vibrate*, they act as magnets, drawing around themselves matter of a frequency similar to their own. In the early stages, there is a loose cloud of matter around the permanent particles.²¹ The matter is then absorbed into the magma ovoid, filling up the space between the nucleus and the sheath. Q-Balls, representing various elements and other super particles fill the space between the vibrating nucleus and the double-layered sheath in the bubbles—forming something similar to the electrical cytoplasm in a biological cell. The space in between then expands with the steady infusion of energy and materials from the ionised plasma environment, forming a larger magma ovoid. The density of the dark matter absorbed rapidly increases as we approach the centre of the ovoid.

Vertical currents then develop between the dense core of super particles and the sediments of super particles (of opposite polarity) at the top and bottom of the ovoid in the enlarged magma ovoid. This induces a magnetic field and additional (vertical) channels for the super particles to flow. Through the 'Zeeman effect' the light of the nucleus splits into several electromagnetic components, pulsating at different frequencies, which draw the central channels together. As the channels pinch, they collapse as magnetic nodes. Charged particles from the environment rush into these nodes—causing cone structures and rotating accretion disks (or the chakras) to form on the surface of the magma bodies. Meridians emanate from the nodes to vital areas in the magma ovoid to supply energy absorbed by chakras to these areas.

Permanent Particles and Quantum Seeds

Besant says that the permanent particles are scattered throughout the vegetable and mineral kingdoms, though the reasons governing their distribution are not yet clearly understood. A permanent atom, for example, may be found in a pearl, a ruby or a diamond; many will be found scattered in veins of ore. But on the other hand, much mineral substance and short-

lived plants, do not seem to contain any permanent atoms, according to her. However, in long-lived plants, such as trees, permanent atoms are constantly found. At the moment, she says, our knowledge on these matters is extremely fragmentary.²² In other words, these particles appear to be distributed randomly or in an apparently acausal distribution—a similar description given by scientists regarding quantum seeds in the early universe which triggered cold dark matter to clump. Even scientists describe these quantum seeds as ‘mysterious’!

The ‘Unicellular’ Magma Ovoid

Ball Lightning

According to Lozneanu and Sanduloviciu the plasma sphere, initiated by a spark and self-assembled in a plasma environment, is similar to ball lightning—which has been described in the literature as a ‘giant cell.’

The Biological Cell

Just like ball lightning, the magma ovoid can be described as a ‘giant cell.’ In many ways, the plasma sphere and our magma ovoid bodies resemble biological cells. Just like the magma ovoid, the biological cell in a human body has a membrane, a nucleus and filaments. Inside the cell, between the nucleus and the membrane, there is a large fluid-filled space called the cytoplasm. The cytoplasm, which contains many salts, is an excellent conductor of electricity. Its watery component can change from a gel-like solid to liquid and vice-versa—just like liquid-crystal magma ovoids. The nucleus in the biological cell often flows with the cytoplasm changing its shape as it moves.



Formation of the Physical-Biomolecular Body

Weaknesses in a purely Biochemical Theory

Gene Expression – What is activated and what is not?

'Junk DNA' which makes up 97% of the human genome does not seem to have any purpose in morphogenesis. The modern version of Darwin's evolutionary theory is that through a process of random mutations, genes give rise to a diversity of life-forms. But even mutations will not be expressed if it is part of junk DNA. So it seems that the more important mechanism is that which selects which part of the DNA should be junk and which part should be expressed. Remember, this mechanism has already decided that 97% of the DNA in the human genome will not be used. And scientists have no clue currently on why this should be so. According to Gerald Schroeder, the concept of a latent library (of junk DNA) posits a mechanism very different from the classical theory of evolution where random mutations provide the changes in morphology.¹

The question as to how identical cells differentiate into specific cells for the liver, brain, skin and other organs in a developing human embryo is still a scientific mystery. If all cells of an embryo arise from identical cells dividing, they must all be carrying identical genes and cytoplasm. How is it, then, that

a newborn baby is composed of not only billions of cells, but a multitude of different cell types: skin, nerve, muscles and so on?

Apparently, it is the activation of certain genes and the deactivation of others in different cells of the body which leads to the creation of different types of tissues. How does the cell 'know' which genes to turn on and which genes to turn off? What selects the genes to be expressed in a particular cell? Science has been telling us that the diversity in life-forms is produced by the interaction of random mutations in genes and the environment. Yet it must be remembered that only the mutated genes that are not considered 'junk DNA' and which are activated will have an effect on the final structure of the life form. If there are master control genes controlling these activations, what controls these genes?

Human Beings vs. Roundworms

The human genome is estimated to have more than 30,000 to 40,000 genes. The estimates are surprising because it means that complex human beings have only about 50 per cent more genes than the simple roundworm, which has about 19,000. Dr Sean Eddy, a Howard Hughes Medical Institute assistant investigator at Washington University, in an interview with the New York Times said: 'It's starting to look like there's a lot of stuff going on beyond the core set of 30,000 genes.' Scientists also believe that there is something unique about primate eggs that make cloning monkeys or people even more difficult than cloning other animals.

The Final Form is not Solely Determined by Genes

Researchers at Texas A&M University cloned a cat in 2001, only to find that the clone did not resemble the original. Both cats have identical DNA, but different coat markings distinguish the original 'Rainbow' and her clone 'cc' as their bodies use the same genes differently. Rainbow is a typical calico with splotches of brown, tan and gold on white. Her clone, cc (for carbon copy), has a striped grey coat over white. Rainbow is reserved while cc is curious and playful. Rainbow is chunky; cc is sleek. In other words, you can clone your favorite cat, but the copy will not necessarily act or even look like the original. In this case, they are practically worlds apart in terms of appearance and temperament. The strong correlation between genes and the final life-form in the popular conception is therefore not as strong as many geneticists make it out to be.

A Stanford group led by Steven Chu in 1998 had observed physically identical molecules behaving differently under seemingly identical conditions. Inside a microscopic fluid cell, coiled DNA strands experiencing the same flow currents unravel in a host of radically different ways—some-

times forming kinks in the middle, others forming knots at one or both ends, and others getting caught up in a folded shape as they try to unfold. Chu attributes this phenomenon to tiny fluctuations in the initial conditions—such as a small temperature change in the fluid of the cell. Deterministic chaos is evident in embryogenesis.

Need for Inter-Cellular and Inter-Organ Communication

In micro-organisms genetic material is not bound to proteins and is in direct contact with the cytoplasm. In our cells, however, the DNA is not only bound up in proteins but is separated from the rest of the cell by a nuclear membrane. The products of synthesis in human cells must cross through the nuclear membrane to the nucleoplasm if they are to serve as metabolic signals for gene action. In other words, there is a greater need for intra-cellular communication in cells of higher (more complex) organisms. How do cells communicate with each other to form a complete 3-dimensional human being? Furthermore, many traits found in complex organisms are the result of the interaction of many different genes. These genes need not be closely linked or even linked at all.

Anna Pai argues that multi-cellularity adds another dimension of complexity to the picture. We know that in the development of embryos in complex organisms such as vertebrates, there is definitely inter-cellular communication, which is absolutely essential for normal development. In other words, besides the cell's own genetic machinery there is control over the cell by external factors generated by other cells. Experiments have shown that inter-cellular communication is the rule rather than the exception during embryogenesis in higher (more complex) organisms. In addition to the communication between cells, the normal development of higher organisms also involves a complex and dynamic relationship between different organ systems.²

Maintenance of Body Form

Cells are created and then die constantly; yet the body's form is retained. In fact, all the cells in our body are completely replaced every seven years. How do cells know what to grow into? Is it plausible that the complex and chaotic conditions that existed during the genesis of specific cells during birth are replicated each time a cell is damaged or aged and needs to be replaced? Oldfield and Coghill question, 'When we cut our finger, what makes the fingerprint cells grow and heal exactly where they were before? How is it that, even though every cell in the human body has changed in six months, we can instantly recognise the face of a friend whom we bump into after a year's absence?'³ In 1955, the American physicist

Richard Feynman asked, 'The atoms in our brain are being replaced; the ones that were there before have gone away. So what is this mind of ours, these atoms of consciousness...which remembers what was going in my mind a year ago?'

Harold Burr says that in building life forms, the 'fields of life' (or L-fields) override the normal laws of chemistry and physics. They compel atoms and molecules to assume—and retain through constant changes of material—stable arrangements, which break down to simpler compounds after the death of the form. If not for this 'overriding authority' of the L-fields you and I could not exist in our present form.⁴

Another theory which supports this approach is Rupert Sheldrake's concept of morphic resonance. According to Sheldrake, his concept of morphic resonance and fields had grown out of the notion in developmental biology of 'morphogenic fields'—an idea which dates back to the 1920s in the work of biologists A Gurwitsch and Paul Weiss. In modern developmental biology these fields are usually regarded as mathematical abstractions with no causal effect (in the same way that some regard the wavefunction in quantum mechanics). By contrast, Sheldrake interprets them to be 'causal fields' with an inherent memory given by morphic resonance.⁵

Deepak Chopra gives us a good example of how well forms are maintained. He says that if a doctor takes a patient's X-ray image and discovers a malignant tumor; then a year later takes another X-ray image and the same tumor shows up, the doctor is not accurate in calling it the same cancer, because the cells that showed up the year before have been entirely replaced. What he is really seeing is the result of a memory that has persisted, reincarnating again and again in a new tumor.⁶

What is a cell, then? It is a memory that has built some matter around itself. Your body is the place your memory calls home.

Deepak Chopra ⁷

Sheldrake believes that invisible, but nonetheless pervasive 'morphic fields' are responsible for both the shape and behavior of all things, from atoms to zebras, organising them much as a magnetic field lines up iron filings. These fields broadcast across time and space, a phenomenon he calls morphic resonance. A carrot seed grows into the shape of a carrot because it is directed by the cumulative morphic resonance of all previous carrots. A million blind African termites build a 10-foot-tall nest, featuring top-to-bottom ventilation shafts and other complex architectures, because they are guided by the morphic resonance of previous termite nests. A

newspaper crossword puzzle is easier to solve late in the day, because the morphic resonance broadcast by thousands of successful solvers facilitates the task. A dog anticipates its owner's return because the bond they forge through close association is what Sheldrake terms a 'social' morphic field, which stretches, but does not break when they are apart (much like etheric matter).

A frequent critique of Sheldrake's work is that the fields he posits seem to be undetectable—his experiments and research may (or may not) imply their existence but do not indicate what morphic fields or resonance actually are. With the existence of dark matter now under serious consideration, Sheldrake's fields look something more like a dark body or field.

Sheldrake's theory echoes detailed metaphysical theories which state that thought-forms are generated on higher energy planes. Similar thought-forms form clusters, resonate and influence each other. These interactions have been discussed in detail by Leadbeater and Annie Besant⁸ and commented on by other metaphysicists, including Barbara Brennan.⁹

Sheldrake doesn't dispute that genes play a role in morphogenesis, but he insists that the hope that biochemistry will yield the whole story is naive. '...there is more to development than making the right proteins in the right cells at the right times,' he says. The shapes cells assume and the forms of tissues, organs, and the whole animal—i.e. the morphogenesis—are not explained by protein synthesis alone. Genes, he says, 'tune' a system to one morphic field or another in much the same way that flipping a television's channel selector determines which programs it receives.

Leonard Ravitz says that electric fields (which were earlier postulated by Raymond Burr and Dr Northrop and differ from the alternating-current electric output of the brain and the heart, as well as epiphenomenal skin-resistance) serve as an electronic matrix to keep the corporeal form in shape.¹⁰

The Role of Electromagnetic Fields

Effect of Electromagnetic Fields on the Biomolecular Body

It has been found that even weak electromagnetic fields affect gene expression in a top-down process. According to Johnjoe McFadden, weak electromagnetic fields have been shown to have surprising effects on biological systems—from making nematode worms grow faster to changing gene expression levels or preventing 'cell suicide.'¹¹ Harry Oldfield and Roger Coghill, quoting Kenyon, say that minute electrical potentials co-ordinate the balance of electrical activity in the brain. By comparison a nerve action potential can be enormous. They believe that monitoring subtle changes in electromagnetic activity can be useful.¹²

Very small energy changes in magnetic fields are of major biological importance.

Harry Oldfield and Roger Coghill,
quoting Kenyon ¹³

Scientific experiments have shown that weak electromagnetic fields can have profound effects on biochemical fields. In experiments with humans reported many years ago, frequencies at 6.6 hertz were found to cause depression; 11 hertz caused agitation and rioting; 8 hertz created feelings of elation; and frequencies below 6.26 hertz caused confusion and anxiety.

Also, green, blue, and red color perceptions were intensified when electrodes were placed on the temples and people were exposed to low voltages at 42.5 and 77 hertz. Some studies found that certain fields increased general visual sensitivity but reduced color perception. This clearly shows that electromagnetic fields can interact with biochemical fields in and around cells to induce biochemical activities—in this case to generate the relevant neurotransmitters to cause specific emotional states and perceptions—in conjunction with operations in higher-energy bodies.

Leonard Ravitz says that countless experiments have demonstrated that electric fields serve basic functions, controlling growth and morphogenesis, maintenance and repair of living things. He says such studies throw a wet blanket on scientific dogma which still asserts that the human body is principally a chemical product derived from 'the mystical activities of the DNA molecule.'

Colin McCaig of the University of Aberdeen, Scotland, looked at rat corneas. In an undamaged cornea, cells pump positive ions into the cornea and push negative ions out, creating an electrical potential (or voltage) of 40 millivolts. In damaged areas, this voltage disappears, setting up an electric field between damaged and intact areas along the surface of the injured cornea. The researchers used a variety of chemicals to nullify or enhance the natural field. Dividing cells tend to line up at right angles to the electric field. When the fields were nullified, the cells positioned themselves randomly. This finding provides clear evidence that electromagnetic fields are required for positional order in the biomolecular body. Healing was faster when the field was boosted and slower when it was decreased. Stronger fields also encouraged cells to divide—leading to growth.

McCaig says that the work is the first (rigorous) demonstration that the body's natural electric fields play a key role in healing and providing a positional reference grid in which biochemical activities can take place with purposeful outcomes. The research has been reported to the 'Proceedings of the National Academy of Sciences.'¹⁴

The Electronic Matrix

The electromagnetic field that Robert Becker measured is a field generated not by the biomolecular body (which as Science has argued no conceivable means to generate a global electromagnetic field). The voltage gradients in fact belong to the lower electromagnetic etheric double. The etheric double is composed of super particles just beyond the physical-biomolecular body. As such it is at the edge of the measuring capabilities of today's scientific instruments.

Burr concludes that the fate of any group of cells in an embryo is not only genetically conditioned, but is also the result of the position of that group of cells in the biological whole. The fate of any group of cells is determined in part by the positions those cells occupy in the electro-dynamic field in the embryo.¹⁵ Liquid-crystals have long range orientational order. In the crystalline state it also has positional order.¹⁶ The liquid-crystal electromagnetic etheric double in its crystalline state can offer a 3d coordinate system for biochemical activities to take place.

According to Franklin Harold, forms cannot be explicitly engraved in the genome; they are remote implications of the genetic instructions, each arising by the collaboration of numerous gene products distributed in space. He says that a spatially extended dynamic field generated by the cell as a whole is an obligatory intermediate between genes and form. Its function is to organise gene action in space: the morphogenetic field is the agency that defines the pathways of molecular transport and positioning, and ultimately localises the forces that shape the cell. The fields that guide morphogenesis should themselves be products of variation and selection.¹⁷

Genes appear to project a weak electromagnetic field which betrays a 3-dimensional form that some can see. In fact, the subtle radiation with embedded holographic information observed by scientists at the Russian Academy of Sciences may in fact be picking up this form in their measurements.¹⁸ (These findings will be discussed shortly.) Metaphysicists believe that the development of the physical body is guided by the lowest energy etheric-double—the closest dark matter body to the biomolecular component of the physical body. The etheric double, being a super magma body, is an 'electromagnetic body.'

According to Leadbeater, the etheric double is actually built in advance by a 'thought-form.' 'Clairvoyants sometimes see this doll-like little figure hovering about, and afterwards within the body of the mother.'¹⁹ In Burr's experiments with plant seedlings, he discovered electrical fields which resembled the eventual adult plant. He also discovered that salamanders possessed an energy field shaped like an adult salamander, and that this blueprint even existed in an unfertilized egg. He found that young

salamanders were surrounded by an electrical field of the same size as an adult salamander. He also found that electrical fields surrounding sprouts did not correspond to the form of the seeds but to the form of the grown plant.²⁰

Barbara Brennan says that through higher sense perception, she has observed that an energy field matrix in the shape of a leaf is projected by a plant prior to the growth of a leaf, and then the leaf grows into that already existing form.²¹ Human morphogenesis, just like the morphogenesis of galaxies and the universe as a whole, is guided by dark matter—in the form of the electromagnetic etheric body. According to Ron Cowen (Science News Online, Oct 13, 2001), scientists believe that dark matter provided the gravitational scaffolding necessary for the first galaxies to coalesce when the universe was less than a billion years old.

According to Johannes Fisslinger, an American research institute conducted a series of experiments which established a connection between its electromagnetic results and the aura. Using these results, the Institute was able to develop photographic representations of the aura. Fine sensors scan and measure the electromagnetic field. The values were correlated to frequencies and colors—which were corroborated independently by ‘clair-voyants’ or ‘sensitives’ who claim to be able to see the auras.²² Here again we see a significant relationship between the electromagnetic fields that Burr and Robert Becker studied and the higher-energy bodies composed of dark matter. It suggests that electromagnetic dark matter bodies guide the morphogenesis of the biomolecular body and can be seen by at least some people—using their higher energy magma bodies.

While the biomolecular body may not be suitable for long-range inter-organ and inter-cellular communication, long-range correlations abound in super magma bodies—enabling morphogenesis of these bodies to take place at a much faster rate. According to Anthony Peratt, the axial current flow in galactic filaments produces a long range interactive force on other galactic filaments.²³ Similarly, the web of meridians within the etheric body generates long range interactive forces to guide the morphogenesis of the biomolecular body by aiding inter-cellular and inter-organ communications. But how do genes impart design to the electromagnetic etheric body?

Effect of Genes on Electromagnetic Fields

In measuring the L-fields of plants Burr found that the change of a single gene in the parent stock produces profound changes in the voltage-pattern. He found it remarkable that the change of a single gene in the parent stock should produce such profound and significant change in the overall pattern of the voltage differences. He believes that there is a very close relationship

between the genetic constitution and the electrical pattern and that it is probable that one of the ways chromosomes impart design is through the medium of an electro-dynamic field.

He says, 'Wherever we made electrical measurements of living systems we found voltage gradients; and in all our experiments we found that voltage gradients in living systems, without exception, are organised in patterns.'²⁴ Everyone knows that the forms of cells and organisms are strictly inherited, and can be altered by mutation with specific and reproducible effects. Yet how can a one-dimensional gene effectively project a three-dimensional body or field?

Can DNA project a thought-hologram in super universes?

We know that DNA has fractal properties, but is the structure of the life-form holographically encoded in DNA? There is in fact evidence that DNA may contain holographic information. Marcer's holographic 'DNA-wave biocomputer' theory concludes that the 3-dimensional holographic image data of an organism is stored in the holographic gratings between the two helices of DNA. Illuminating the DNA with a laser beam can be expected to generate radiation which carries the holographic information.²⁵ According to Marcer, experiments conducted at the Russian Academy of Sciences, confirm that DNA is capable of both encoding and decoding holographic information.

Separately, subtle radiation containing holographic information from DNA was observed in experiments at the Russian Academy of Sciences as a surprise effect during experiments measuring the vibrational modes of DNA in solution using a sophisticated laser photon correlation spectrometer. Russian scientists at the Russian Academy of Sciences had measured this bioenergy without immediately realising its holographic nature.

According to Sue Benford, their research suggests the existence of a subtle radiation linked to physical DNA that may support the hypothesis of an intact energy field containing relevant 'organismal information' that is capable of being coupled to an optical imaging device. The Russian experiments, in fact, produced different measurements when DNA was present and removed from the scattering chamber. These results were contrary to the expectations of the experimenters. After duplicating the initial experiment many times with re-calibrated equipment, the scientists were forced to accept the working hypothesis that some new field structure was being excited from the physical vacuum.²⁶

Perhaps this can be explained by concluding that the dark matter counterparts of the 'one-dimensional' gene generates multidimensional holograms (or 'thought-forms' in metaphysical literature) in the coherent light

of the etheric, astral and causal universes, based on the holographic codes in DNA, within the etheric, astral and causal magma bubbles—providing etheric, astral and causal blueprints to guide the growth of the relevant bodies in the relevant universes. (The etheric blueprint would manifest as subtle radiation observed by the Russian scientists.) (This is quite similar to images being generated in higher energy universes based on the holographic encoding in the brain, discussed in Chapter 10.)

If this is so, then all the structures associated with the DNA through thousands of millions of years of evolution, should be projected. This is exactly what Barbara Brennan observed. She says that ‘the (higher) template body contains all the forms that were generated within the backdrop of “solid space.”’²⁷ In metaphysics, space is frequently considered perfectly symmetric (it would therefore appear as a contradictory ‘full’ vacuum from our perspective) and the asymmetric holographic forms are ‘extracted’ from this space. The holographic form of the primate body within magma bubbles attract and sculpt the various types of matter into a semblance of the human primate body complete with internal organs.

Affinity between Ordinary and Dark Matter

According to Robert Britt, studies show that both ordinary and dark matter work in concert to build the web of filaments in space, with dense junctions where galaxies cluster together. Studies show that on large cosmic scales dark matter and galaxies trace out the same shapes and structures. ‘They become sculpted into nearly identical sheets and filaments, with vast expanses of near-nothingness in between.’²⁸ This shows an affinity between the two types of matter.

As pointed out earlier (in Chapter 4), Julio F Navarro of the University of Victoria in British Columbia suspects that interactions between ordinary matter and dark matter underlie the variety of dark matter halo structures of galaxies. Dark matter has been regarded by scientists as something that gives structure to ordinary matter. However, he says, near the centres of galaxies, ordinary matter is calling the shots and pushing dark matter around. There is, therefore, a co-operative process between dark and ordinarily visible matter in the formation of structures (both dark and visible).

Describing the formation of the astral body, Leadbeater says that, initially, the mass of astral matter is not yet formed into a definite astral body but takes ‘the shape of that ovoid which is the true shape of the causal body.’ Subsequently, when a little body (interpreted here as the holographic projection of the primate body from the holographically-encoded astral genes to the astral universe) is present, the astral matter is immediately attracted to it, so that the bulk of the astral matter, which previously was

evenly distributed over the large ovoid, now becomes concentrated inside the periphery of that body.

Leadbeater observed an affinity between astral and physical matter. He says that astral and causal matter is attracted to physical matter and moulds into its shape. As the body grows, astral matter follows its every change, 99% of which is compressed within the periphery of this physical body. The remaining 1% fills the rest of the ovoid.²⁹ The affinity of dark matter to ordinary matter is supported by scientific observations and theory.

In addition, (as discussed previously in Chapter 8) astral matter is very responsive to thought-forms (which are really electromagnetic holograms that magma has an affinity to). The responsiveness of dark astral matter to the holographic forms generated by DNA (counterparts) allows the astral body to mimic every nook and corner of the physical-biomolecular body. The hologram provides the mould in which astral matter clumps and is shaped, with the aid of the vibrating nucleus in the magma bubble or sphere (as discussed in the previous Chapter). In similar processes, the causal and etheric bodies form.

Vibrational Imaging

Acoustical waves are generated by the nucleus in the magma bubble or sphere (which contains the dark matter counterpart of DNA) as it vibrates. These waves are modified or modulated by the presence of the dark matter counterpart of the DNA molecule in the sphere.

Han Jenny revealed that complex and intricate forms, often resembling living organisms, can arise from inert powders, pastes and liquids; solely through the influence of sound waves, in a field of study he calls, 'Cymatics.' (We know that dark matter and plasma is diffused and consists of widely separated particles—which would make it responsive to acoustical waves.)

As noted previously, no matter how complicated a wave is it can be described as a combination of many simple sine waves of various frequencies and amplitudes. When switched on and off at irregular intervals, or modulated in intensity or in frequency, waves can carry a large amount of information. This is how an entire orchestra (a complex 'sound image') can be heard from the single vibrating cone of a loud speaker.

Similarly, a single vibrating nucleus in a magma bubble or sphere can generate a complex image of a primate body by drawing-in and shaping more than 99% of the matter in the magma bubble or sphere by its constant modulated vibrations. This multi-dimensional image would in fact be an electromagnetic body which would emit light and resemble a hologram.

Interaction of the Etheric and Biomolecular Bodies

The etheric body, which is formed within the magma bubble, is an electromagnetic body which is very close in frequency to the biomolecular body. It interacts weakly with the biochemical fields in and around cells in the biomolecular body. The 'vertical power current' or the central channels of the etheric body induces an axis in the biomolecular embryo to give cells their 3d positional reference and orientation. The electromagnetic field of the etheric body, which is informed by the holographic form generated by DNA in higher energy universes, facilitates the growth of the biomolecular body. William Tiller asserts that the human energy field is a holographic template that guides the form and structure of the physical body. 'It is a kind of three-dimensional blueprint around which the physical body forms.'³⁰

In a paper submitted to the 'Physical Review' in November 2003, Chung-Pei Ma, an associate professor of astronomy at UC Berkeley, and Edmund Bertschinger of the Massachusetts Institute of Technology (MIT) say, based on computer models of how dark matter would move under the force of gravity, that dark matter should form smaller clumps that look superficially like the galaxies and globular clusters we see in our luminous (ordinarily visible) universe.

According to the scientists, dark matter has a dynamic life independent of luminous matter. Chung Pei-Ma also confirms that 'the ghost universe of dark matter is a template for the visible universe'³¹—providing evidence that traditional metaphysical theory had got it right all along. The etheric and astral bodies inside magma bubbles look superficially like the biomolecular body but they operate differently, being based on electromagnetic rather than biochemical processes—as alluded to by Leadbeater. Metaphysicists, such as Brennan, have been insisting for years that these dark matter bodies form the templates for the formation of the biomolecular body.

Generation of Time-Resolved Holograms in the Astral and Causal Universes

In holography, every part contains the whole but the image becomes 'blurred' if there is too little information in the storage medium. It is as if each part reinforces the body image projected by other parts. A certain number of identical cells must be produced before cell differentiation begins in the human embryo. It is the combined projection of the genetic holographic information contained within these cells within the astral and causal magma bubbles that produces a clear holographic thought-form which guides the development of the etheric double and subsequently, the biomolecular body.

After a certain number of divisions in the human embryonic cell and the formation of completed etheric, astral and causal magma ovoids, the genetic holographic information contained within the cells is then able to project clear multidimensional holographic images of the primate form within the magma bubbles. Most of the matter (in the form of plasma) within the bubbles is attracted to and clump on these holograms to form bodies which mimic superficially the primate form of the biomolecular body—much like the iron filings which form around a magnetic field in a bar magnet, betraying the shape and structure of the magnetic field.

If genes project a holographic image within the astral and causal universes—where there are more than 3 space dimensions and a more expansive time dimension, the 3-dimensional etheric mould which is then generated from this thought-form would be a time-resolved hologram. This means it is a form that will look different at different points of time in our universe—just as an imaginary 3d sphere which passes through a 2d plane would show different cross-sections of itself on the plane. It will be seen to be growing over time—from our 3d perspective. According to Barbara Brennan, the human energy field has an organising effect on matter and builds forms; and it appears to exist in more than three dimensions. Any changes in the material world (our lower energy universe) are preceded by a change in this field.³²

Dr Tung H Jeong, Professor of Physics at Lake Forest (Illinois) College, has shown how holography can be used to make something similar to enhanced time-lapsed photography. Jeong reported in 1988 to the International Society of Optical Engineers that a hologram can be used to compare with a living and growing object to correct the growth pattern and therefore guide its development.³³ If the design of the body occurs through the medium of a field there still has to be a mechanism to translate the information in the genes into a 3d guide which evolves with time. Holographic encoding allows this. As the angle of the illuminating laser beam is changed, the structure of the life-form at different ages can be projected. Barbara Brennan has characterised some of the subtle bodies as having 'light grids.'³⁴ A (light-wave) hologram is conceptually a 'light grid.'

Accelerated Morphogenesis

Since long-range correlations are the norm in higher-energy universes, morphogenesis is accelerated in these higher frequency spheres and slows down to 9 months in our familiar sphere. The morphogenesis that occurs in higher spheres facilitates the morphogenesis of the physical-biomolecular body. Due to the accelerated morphogenesis in higher energy universes, a clairvoyant will first see the primate form in the causal and astral bubbles,

then the form in the etheric double—prior to the formation of the biomolecular body i.e. a ‘top-down’ process.

This may give the impression that higher universes unilaterally determine the structure of the biomolecular body. There is, in fact, a co-operative process between the higher and lower energy universes—since the holographic templates of the primate form generated in higher energy universes are determined by the one-dimensional set of genes in our universe but the subtle bodies (which are generated with the aid of the holographic templates), in turn, guide the formation of the three-dimensional physical-dense body. Hence, a hybrid model (with both ‘top-down’ and ‘bottom-up’ processes) is required—just as a hybrid model is required to explain the genesis of the large scale structure of the universe, as argued by Rogier Windhorst of Arizona State University.

The rate of morphogenesis in each successive universe slows down due to the petering out of long-range correlations and diminishing responsiveness to holographic thought-forms. At the physical-biomolecular level, these long-range correlations are almost absent. Hence, the biomolecular fetus has to be assisted by the etheric double in its formation.

Post-Mortem Body Images and Templates

Ian Stevenson, a scientific researcher in reincarnation-type cases, has discovered that a person’s previous incarnation can apparently affect the very shape and structure of their current physical body. Burmese children who remember previous lives as British or American Air Force pilots shot down over Myanmar during World War II all have fairer hair and complexions than their siblings. Distinctive facial features, foot deformities and other characteristics were carried over from one life to another. Most often birthmarks resembling scars from physical injuries have been carried over.

In one case, a boy who remembered being murdered in his former life by having his throat slit had a long reddish mark resembling a scar around his neck. A boy who remembered committing suicide by shooting himself in the head in his past incarnation had two scar-like birthmarks that lined up perfectly with the bullet’s trajectory, one where the bullet entered and another where the bullet exited. Stevenson has gathered hundreds of these cases and has published articles in authoritative journals, including the ‘Journal of the American Medical Association.’

These cases suggest that reincarnation took place a short time after the death of the biomolecular body and that the etheric double had not disintegrated completely. This is similar to near-death experiences, except that a different biomolecular body is subsequently occupied. In near-death experiences the etheric double would be in the process of disintegrating. If

there is a subsequent recovery, the etheric double will be regenerated and reinforced. In certain rare cases, the etheric double is used again during a subsequent rebirth as a human being in this or another lower-energy universe. This usually occurs when the rebirth occurs shortly after death. In these rare cases, even certain physical features and attributes, which were developed during the previous lifetime, may appear again in the new physical-biomolecular body.

In these cases, the etheric double had been impacted by the physical deformation to the previous biomolecular body and transmitted it as a feature in the new physical-biomolecular body. However, studies have also shown that a decapitated limb (commonly called a 'phantom limb') still 'shows up' in the etheric double in near-death experiences. A leaf, which is torn-off on one side, still produces a Kirlian image showing a whole leaf.

Effect of Impacts on Higher Energy Bodies

This shows that certain types of impacts do not affect the etheric double and the higher energy bodies, while others do. The impact of any physical injury on the physical-biomolecular body diminishes as we advance towards the higher-energy bodies. The astral body usually appears without any impacts from the physical body because it is so distant from the physical body in terms of frequency and energy. On the other hand, the etheric-double which is 'nearer' to the physical body in terms of frequency and energy receives more impacts.

Infections (biochemical intrusions) are not carried-over to the etheric double. Magma bodies are electromagnetic—not biomolecular bodies. Hence, they are generally not impacted by biochemical agents. Clean mutilations are also not carried over to the new etheric double. Rupert Sheldrake's theory of 'morphic resonance' would dictate that any acquired characteristic, whether a behavior or a shape, can be inherited. Sheldrake fills much of his 1988 book 'The Presence of the Past' with experimental evidence for acquired-characteristic inheritance. One example: In 1923, Russian physiologist Ivan Pavlov trained mice to run to a feeding place when an electric bell was rung. The first generation required an average of 300 trials to learn, the second 100, the third 30, and the fourth 10. Some later experiments on other creatures imply that acquired shape-changes can be inherited.

Critics assert such studies have not been reliably replicated and abundant laboratory and cultural evidence points in the opposite direction. Lamarck and his followers should have realised, wrote marine biologist J R Whitaker, that 'a millennium of circumcision rites by the Semitic races had certainly failed, for example, to result in the birth of males without foreskins.' Sheldrake believes, however, that on the basis of morphic

resonance, mutilations would not be hereditary. They are changes imposed on the organism, which it suffers passively, rather than changes it has made as a result of its own activity. The latter would be expected to have an influence through morphic resonance, not the former.

Fusion of Magma Bodies

These cases provide some evidence that the morphogenetic (or electromagnetic) field of super magma bodies cultivated in previous incarnations can resonate and fuse with the new magma bodies generated by the new human embryo—working in coordination with higher energy universes. We know that Q-balls tend to fuse when they are in-phase. It has been found in certain studies that a spouse can become increasingly similar in looks to her husband or his wife. This provides some evidence that morphogenetic fields (as represented by etheric doubles) can influence or ‘merge’ with each other. The physical characteristics of one template can begin to influence, resonate and fuse with the other.

Existing beings in higher energy universes could, if they so desired, fuse with new magma bodies generated by new human embryos that were in-phase and resonated with them.

The Way Forward

Genes fail to explain why human beings are so different from roundworms. Perhaps there is more information than just from the genes that finally decides the individual. The nuclei of the etheric, astral and causal magma bubbles also contain information about the individual. They too are subject to evolutionary forces. It is the composite information from DNA and the nuclei of higher energy bodies that finally make the individual. If this is accepted, then, as higher energy bodies are more mind-like, we must also accept that even our thoughts and emotions can affect our evolution and the bodies that we identify ourselves with.



Death of the Physical Bodies

Pre-Death Experiences

The people who were crossing over spent most of their time out of the body and away. Apparently, they were off with their spirit guides somewhere. When the people were in their bodies, there were plenty of spirits in the room.

Barbara Brennan¹

Prior to death, when the higher energy bodies become more detached from the physical body, the sensory systems expand intermittently—the locus of awareness alternating between the physical and astral bodies. This is the ‘extensive phase’ of the death process, which may take years, months or weeks. This phase is followed by the ‘intensive phase’ of the death process where dramatic events take place at a much faster rate.

In those episodes when the sensory systems expand intermittently, the person sees beings from the next universe (most often the astral universe) in their immediate vicinities. These forms may be sensed before they appear initially as dark blobs. As the intensive phase of the death process nears, however, these dark blobs subsequently transform into definite bodies with form and color. The observation that they are seen as dark blobs before adopting

any color or shape is a significant observation. From being invisible, the images of these dark bodies become first dark (absorbing light) then colorful (reflecting or emitting light). What we know as 'dark matter' may go through the same transformation as our state of consciousness or frame of reference changes. The sequence of events most frequently experienced during the intensive phases is described below.

Dissolution of the Etheric Double within the Biomolecular Body

The intensive phase of the death process of the physical bodies begins when the etheric magma bubble (of the higher etheric double) contracts into its nucleus—expelling or dissolving the etheric magma in the process. (This is a reversal of what happens during morphogenesis). The physical-etheric nucleus then departs through a meridian in the lower etheric body—which connects the area near the heart to the area surrounding the brain. According to Valerie Hunt, each material substance, living or inert, mineral or chemical, has its own vibratory signature (or resonant frequency) carried in the structure of its field.² Information from life experiences alters the vibratory signature of the etheric ovoid and its nucleus and consequently their internal structure. During the death process the ovoid (the size of a man or larger) contracts to the size of a small nucleus. The information in the nucleus, representing both memories and the body image, is effectively 'zipped' or 'packed' and forwarded to the next higher-energy dark body (most often, the astral body). In Tibetan yoga, the (plasma) winds (or prana) are said to be dissolved into the 'indestructible drops' in the heart area during this process. The etheric nucleus has both particle and wave characteristics.

According to the 14th Dalai Lama, a subtle white element descends from the head, down through the central channel, and then stops at the heart centre during the intensive phase of the death process. As it descends to the heart, a person will have the experience of a pale light. Following this, a subtle red element (from below the heart) ascends to the heart, and while this is occurring, there is a subjective experience of a reddish sheen arising. When the two of these completely converge, there is a blackout, as the (physical-etheric) nucleus first enters into the nadi (or meridian or 'tunnel'). Following that blackout is the period of '(clear) light.'³ According to Leadbeater, at death Prana gathers everything together and, withdrawing from the body, hands everything to the 'Knower.' He says that as the 'life web,' accompanied by Prana, disentangles itself from dense physical matter at death, it draws itself together in the heart around the permanent particle (or the physical-etheric nucleus of the higher etheric double).⁴

The Reversed Zeeman Effect

When the main vertical power current (and the associated magnetic fields) collapses, the reversed Zeeman effect takes place. The field of consciousness, as represented by the large etheric magma ovoid and its electromagnetic field stretching into infinity, contracts into the etheric nucleus. This particle (or 'bindu' in Hindu scriptures) is the last locus of dense physical awareness. As the poles of the field close-in—the particle at the 'north pole' near the head which is violet and the particle which is at the 'south pole'—near the genital area which is red converge creating the dominant color white because white is the combination of all the other colors. If the rate of closure is uneven there could be a red or a blue sheen. On complete closure, there is a blackout. The nodes along the vertical channel of the etheric magma bubble (along the spine in human beings) appear to move towards the centre due to the reversed Zeeman effect (as discussed earlier), merging into the nucleus from which they originated. This process is similar to the teleportation sequence in Star Trek movies where points of light along the spinal axis either come together or separate at the beginning and end of the teleportation sequence.

According to I K Taimni, wherever an unmanifest state is changed into a manifest state, a point is involved. The point is a door between the unmanifest and the manifest, between one universe and another—much like a black hole. Recent studies have shown that black holes exist in the centre of many galaxies and have an important role in the formation of manifested galaxies. (Black holes are invisible.) Taimni goes on to say that the function of the point or 'bindu' in manifestation is similar to that of the prism in the dispersion of white light into a spectrum of colored lights (analogous to the Zeeman effect). It differentiates a principle in an integrated state into its differentiated forms and functions.⁵ On death, the reverse process takes place—there is a convergence of the spectrum of colored lights into white light (the reversed Zeeman effect), prior to the exit of the point-like object from the lower physical bodies.

Exit of the Physical-Etheric Nucleus through the Central Channel

Immediately after the contraction of the ovoid into the nucleus, there is a blackout; and then you may have the sensation of moving through a tunnel, as the particle rushes up the meridian or nadi of the lower etheric double—ascending from the heart area to the brain. It then ejects from the physical-etheric body, via the brain. According to Leadbeater, the nucleus rises along the Sushumna-nadi into the third ventricle of the brain, then to the point at the junction of the parietal and occipital sutures, and finally out of the body.⁶ Barbara Brennan says that the 'tunnel experience' is the

soul going up through the main vertical power current of the body along the spine and leaving through the crown chakra.⁷ This fact was known more than 2,000 years ago:

A hundred and one nadis [or meridians] pervade the heart—of these only one extends up to the head. By ascending through this nadi, a self fares on to immortality. The yogi gathers his prana and carefully passes it through the Sushumna [or central] channel, leading his entire consciousness upward. He then departs through the solar gate [in the head].

Hindu Scriptures, The Katha Upanishad ⁸

A Yoga Master, specializing in the death process, says that during this process, the entire consciousness and life force is gathered together from each and all of the systems within the personality into a single point of light and awareness. He says conscious migration by way of death is a very simple step from there.⁹ Barbara Brennan says, ‘When you leave your body, you may feel yourself to be a point of gold light, but you will still feel yourself.’¹⁰ Some of us may see the etheric nucleus, which has been ejected from the lower physical-etheric body of a dying person, as a bright point of light—since the frequency of physical-etheric matter is close to the biomolecular.

The field that this particle represents extends in all directions infinitely—merging with other fields. During the death process the field contracts to the point that it exits from this universe and enters into a new one. If the rate at which the particle exits the body is very fast, there may not be a ‘tunnel experience.’ Taimni says that if a person starts contracting the mental spherical space in his mind gradually so that it assumes the forms of smaller and smaller spheres, there will be a limit to this progressive contraction. ‘If the reduction is carried beyond this limit, the consciousness will pass through the centre (of the sphere) and emerge on the other side in the next higher plane with its own mental space of a different number of dimensions.’¹¹

Life as a Physical-Etheric Particle

After exiting the brain, the personality lives his life temporarily as a particle-wave-field. The physical-etheric nucleus (which allows access to information about experiences in the physical body) is subsequently absorbed by the higher energy magma body (usually the astral body). Prior to this, however, it experiences events as a particle. At death, the etheric-double finally withdraws from the dense body and may be seen as a purple mist, gradually condensing into a figure which is the counterpart of the expiring person,

and floating over the biomolecular body.¹² This is the etheric matter that is expelled during the contraction of the magma bubble into the nucleus. The physical-etheric nucleus of the (higher frequency) etheric double ejects from the head, amidst this purple haze.

The particle-wave can easily move close to the speed of light which causes spacetime to become meaningless. When this happens, the 'self' disappears as the entity has no longer a spatio-temporal frame of reference to locate the self. However, there is a third party self—i.e. a self relative to others. Combined with the sudden growth of awareness is a feeling of total loss of self and of timelessness. David Darling, in his book 'After Life' says that a scientist recounted, 'It's as if everything was there and everybody was there; the sense was absolute, total fulfillment. But, the quite amazing thing is that I wasn't there; "I" vanished at that moment.'¹³ While in this state, the physical-etheric particle, which does not inhabit any body, can project the image of a body—this is often called the 'illusory body.' According to the 14th Dalai Lama, following mental isolation, the actual 'illusory body' arises, and following that there is Buddhahood.¹⁴ Or more accurately there is a possibility of Buddhahood, as the point of consciousness transits between macroscopic universes.

Orbs

Paranormal analyst, Allan Danelek (in his book 'The Case for Ghosts') says, 'One could think of orbs as "tiny ghosts" moving around a room, their essence being contained within a tiny sphere of pure energy, like air inside a bubble.' This description could easily fit into the description of life-like plasma spheres generated in the laboratory by Lozneanu and Sanduloviciu. 'Orbs' are light anomalies that appear (on photographs and video) as spherical balls of light and exhibit intentional behavior – suggesting some consciousness or awareness of the environment. Orbs often travel in groups or clusters i.e. they exhibit swarm behavior – also a characteristic of particles in plasma – a characteristic observed by Bohm. Orbs also can dart back and forth rapidly like amoebic life-forms in a Petri dish. The balls can be transparent, translucent or in a bright solid form. These are signature features of magnetic plasma which has the natural property of being able to change its degree of opacity when internal frequencies change. Magnetic plasma would also allow orbs to change their output of light or luminosity.

Looking at these balls in close-up reveals that they possess an onion-like layered structure i.e. they have concentric shells – a signature feature of plasma crystals. Danelek says, '... "true orbs" do not reflect light the same way a dust particle or flying insect does, but are instead generally more opaque and, in some cases, even appear to have rings within them.'

Experienced ghost hunter Joshua Warren (in his excellent book 'How to Hunt Ghosts') says, 'Often, orbs appear to have a nucleus, just like a cell. The nucleus might be surrounded by "bands" – concentric circles emerging from it. In fact, it might appear like an onion that's been chopped in half.' All these characteristics are almost identical to plasma spheres and plasma crystals generated in the laboratory.

Some believe that these orbs are conscious spirits that have stayed behind because they feel bound to their previous life or previous location for whatever reason. All these characteristics suggest that they are physical-etheric particles ejected from the dying physical bodies. Their microscopic particle bodies facilitate entry into other universes through microscopic wormholes.

Dissolution of the Etheric-Double *Outside* the Biomolecular Body

When a person is too fearful of 'letting-go' of the state of consciousness that he is accustomed to, the dissolution of the (higher) etheric double may be suspended. In this case, the etheric double separates from the biomolecular body early and wanders about in confusion and fear—while the biomolecular body undergoes decomposition. The individual will not be able to engage with the dense physical or super physical worlds as he has not completed the death process. In this way he or she may wander for months on the physical plane of the Earth until finally (when ready) the etheric double dissolves and the physical-etheric nucleus is released to the next higher energy body—usually the astral body.¹⁵

This is the 'second' death. The first death is the death of the physical-biomolecular body. The second death is the death of the physical-etheric body. There is no strict timing about when the second death will occur. The individual has the freedom of choice—within the constraints of the properties of the etheric double. This is similar to the first death—the individual has some choice on when to 'let-go' of the biomolecular body—although within the constraints of the properties of the biomolecular body. According to the 14th Dalai Lama, those who have gained some experience as a result of meditative training can have a certain degree of control of the duration of the pace of dissolution (and contraction).¹⁶

During the dissolution (and contraction) of the etheric double, the astral body breaks away from the physical bodies. It will then have two loci of consciousness (one particulate and one macroscopic). Normally, the person is unconscious until he has freed his astral body from the etheric matter. There are some people who cling so desperately to this universe that their astral vehicles cannot altogether separate from the etheric, and they awaken still surrounded and entangled by etheric matter.

People who suspend the dissolution (and contraction) of the etheric double are in a very unpleasant condition, suspended as it were between two spheres (the physical and the astral). They are shut out from the astral magmasphere by their etheric body. They drift about; lonely, dumb and terrified, belonging to neither sphere, glimpsing sometimes at other drifting souls and their own unfortunate positions.¹⁷ Intermittently, the etheric veil may tear to permit a glance into the lower astral planes. This glimpse into hell is rarely encouraging; sometimes for a moment some familiar Earthly object may be half-seen—usually from passing contact with a strong thought-image; but such rare and tantalizing lifting of the fog only makes the darkness more soul-shaking and hopeless when it shuts down again. All the while the desperate newly departed do not realise that if they would only let go of their frenzied grip on this universe, they would slip at once (through a few moments of unconsciousness) into the ordinary life of the astral plane. But they cannot bear losing even the miserable half-consciousness that they have; they cling even to the horrors of a grey world of all-embracing fog rather than let themselves sink into what seems to be a sea of nothingness and complete extinction. However, in time, they let go.¹⁸

In time the etheric shell wears out, and the ordinary course of nature reasserts itself in spite of their struggles; and sometimes in sheer despair they let themselves go—resulting in a pleasant surprise.

Charles Leadbeater ¹⁹

The 14th Dalai Lama also notes that during the dissolution, sometimes (etheric) smoke and sometimes (etheric) sparks may be seen.²⁰ During the death of the physical-biomolecular body, the etheric doubles (both crystalline and liquid) would also disintegrate. Smoke is seen on the disintegration of a body in its liquid state; sparks are seen if the body is in a crystalline state.

Post-Mortem Decay of Organic Tissues

According to the 14th Dalai Lama, as long as the 'clear light' of the death experience is sustained, the connection between the very subtle energy-mind and the gross physical body has not yet been severed; it is in the process of being severed but it has not yet been completely severed. At the very moment that the severance takes place, the body begins to decay.²¹ Annie Besant says that the moment the etheric double withdraws, and prana ceases to circulate, the lower lives, i.e. the (biological) cells, run rampant and begin to break down the hitherto definitely organised body. The body can then

be said to be alive in its units but dead in its totality. The corpse would not decompose if it were dead; all the molecules which compose it are living and struggling to separate.²²

Delays in the decaying process may be due to the chemical environment in which the dead body finds itself. For persons who have practiced prolonged meditation, however, delays in decomposition may also be due to the etheric double being attached to the physical body as such persons leave their lower bodies without hesitation, immediately on death. Their etheric doubles have been strengthened and enlarged by prolonged meditation and absorption of large amounts of qi, which serves to preserve the biomolecular body.

The Life Review & the 'Akashic Records'

A life review may be facilitated after the physical-etheric nucleus is ejected through the brain. According to David Darling, at just the moment we expect awareness to close down as the body's life-support systems collapse and brain function is increasingly impaired, near-death experiencers say that they experience startlingly heightened cognition.²³ According to the 14th Dalai Lama, the power of memory is increasing, so automatically the memory of this life would also increase.²⁴ Long before near-death experiences became a popular subject of study in the West, Leadbeater said in 1925 that it is during the withdrawal of the etheric-double, as well as afterwards, that 'the whole of the man's past life passes swiftly in review before the person, every forgotten nook and corner of the memory yielding up its secrets, picture after picture, event after event.' In these few seconds the higher self lives over again his whole life, seeing his successes and failures, loves and hatreds: he perceives the predominant tendency of his life and the place in which his immediate post-mortem life will be spent.²⁵

The individual's 'Life Review' is in fact an extract from the 'Akashic' records imprinted in the zero point field.²⁶ The individual obtains a glimpse of these records pertaining to his own lives. Strictly speaking the life review is voluntary and can occur even during the physical life. For most people, however, there is an instinctual need to know and review what went before; for example, when a friend dies or emigrates we have an instinctual urge to recall our encounters with him and to assess his life in our minds. Similarly, when we bid farewell to our physical bodies, we have an instinctual urge to recall the events that occurred with those bodies. So the life review is 'called-up' by the freed physical-etheric nucleus and does not automatically occur; but usually does. The life review can actually be called-up at any-time during a person's life—because it is always there—etched in the fabric of spacetime.

The past-life review is presumably extracted from the Akashic Records, which seers and occultists have long observed as the indelible impressions left upon the etheric substance of the universe by everything that has ever happened. Clairvoyants may tap into this cosmic memory, and it appears that hypnotic subjects are granted access to the same vast, nonmolecular* library.

Joel Whitton and Joe Fisher ²⁷

* This suggests a plasma state. The physical-etheric nucleus provides the links to portions of the Akashic records that pertain to it.

Observing the Funeral

Leadbeater says that a dead man is often aware of the feelings of the family that he has left since he can see the astral bodies of his family members.²⁸ Astral bodies manifest emotions in dramatic ways in their liquid states. Immediately after death and free from the etheric double, a person usually finds himself in the astral body. In this body, only the astral bodies of others can be observed. The person in his astral body, in its liquid state, would be able to observe the emotional states of family members and friends during the funeral. However, if the funeral occurs before the physical-etheric body is cast-off, then the view will be very similar to that from everyday consciousness within the physical-biomolecular body.

Meeting with the Light

The physical-etheric nucleus is finally drawn towards the higher energy bodies. The meeting with the 'Light' is the meeting with the next higher energy body—in this case the astral body. It is in fact a meeting with your own self in the astral body. Beings in super magma universes generally appear as ovoid balls of light. The physical-etheric nucleus enters and is absorbed into the ovoid ball of light (which is your own astral body).



Earth-Based Heavens & Hells

According to Hiralal Kaji, a metaphysicist, all non-physical planes are more or less only a few hundred kilometres away from the Earth and on the outer border of the atmosphere.¹ This is also stated or implied in the world's religious scriptures:

From where the sun arises to where it sets, There all the gods are suspended; ...As god he dwells in the atmosphere ...

Katha Upanishad, Hindu Scriptures ²

...as they were watching, he was lifted up, and a cloud took him out of their sight. While he was going and they were gazing up toward heaven suddenly two men in white robes stood by them. They said 'This Jesus, who has been taken up from you into heaven, will come in the same way as you saw him go into heaven.'

The Acts of the Apostles, Christian Bible ³

Earth-Based Heavens

According to Leadbeater, the average person, passing into heaven-life, tends to float at a considerable distance above the surface of the Earth.⁴ If Earth was interpenetrated and surrounded by dark matter then it would be reasonable to conclude that the popular 'heavens' and 'hells' described in many religions and cultures are literally on planet Earth—in fact interpenetrating the physical Earth. If we considered Earth in its totality (i.e. including its invisible etheric, astral and causal bodies), these common heavens and hells are actually part of this planet and are subject to the gravitational attraction of the Earth. The practice of looking up to the sky to pray (in whatever country around the globe) may be quite correct since dark matter heavens (and their gods) are actually located in the Earth's atmosphere.

Many cultures (for example the Greeks and Romans) located their gods on the summits of mountains. This may be due to sightings in the past of gods high up in the atmosphere (within the astral magmasphere), superimposed against the summits of mountains. If we take the Bible literally, we will assume that Jesus ascended into heaven (which interpenetrates or shares the same space as our 'physical sky') to perhaps an Earth-proximate heaven within the astral magmasphere initially.

Moses went up to a mountain to speak to God. Jesus went up to a mountain on the day of his transfiguration. Sightings which occur at the summits of high mountains and near cloud level represent events taking place in the astral magmasphere. The Earth's astral magmasphere extends beyond Earth's physical atmosphere (forming a halo around the Earth). Sightings at the higher end or beyond the Earth's atmosphere represent events taking place at the higher levels of the astral magmasphere. NASA has recorded astronauts having 'hallucinations' as they orbited the Earth at that altitude. Were they?

Earth-Based Hells

According to Leadbeater, astral matter gravitates towards the centre of the Earth just as physical matter does; both obey the same general laws. He also observes that the densest aggregation of astral matter lies within the limits of the physical sphere.⁵ This is consistent with the lambda cold dark matter theory (as earlier discussed in Chapter 4). According to this theory, dark matter clumps with a high concentration in the centre. Some physicists have theorised that there could be a large concentration of dark matter in the Earth's core due to Earth's gravitational attraction. Leadbeater has also observed that the 'fiery' kundalini—a dense form of super plasma originates from the centre of the Earth. The universal density profile of dark matter under the lambda cold dark matter theory supports a dense concentration

of dark matter at the centre of the Earth.⁶

The higher density super physical matter (for example, the astral matter of the seventh 'ring,' discussed below), gravitates and sediments below the Earth's crust. There have been reports of miners hearing screams in deep wells and mines that they have tunneled. If hell is made of dense dark matter, it probably is within the Earth's crust! This is of course what has been described by many different cultures about hell's location.

A human being who spends most of his or her time on physical pleasures generates an astral body which is closer in density to physical bodies. After death, this dense astral body gravitates towards the centre of the Earth, together with other astral matter of the same density, as a natural consequence of magneto-hydrodynamics. The pressure imposed by the astral matter above the region is enormous causing the astral matter to be compacted and compressed. This dense region is extremely unpleasant. Movement is restricted and the environment is claustrophobic.

The negative visionary finds himself associated with a body that seems to grow progressively more dense, more tightly packed... many of the punishments described in the various accounts of hell are punishments of pressure and constriction.

Aldous Huxley, *Heaven and Hell*

Leadbeater says that during physical life a person is constantly influencing the building of matter into his astral body. He affects it directly by the passions, emotions and desires which he allows to hold sway over him; he affects it indirectly by the action upon it of his thoughts from above, and all of the details of his physical life from below. He says, 'If he is so stupid to build himself a coarse and gross astral vehicle, habituated to responding only to the lower vibrations of the plane (or ring), he will find himself after death bound to the plane during the long and slow process of the body's disintegration. On the other hand, if he gives himself a vehicle mainly composed of finer material, he will have very much less post-mortem trouble and discomfort, and his evolution will proceed much more rapidly and easily.'⁷

One of the characteristics of 'hell' in popular culture is a lack of freedom and the sensation of being chained. This sensation is caused by the very high pressures experienced in the centre of the astral Earth which impedes movement. The outer core of the physical Earth is molten and very hot. The astral Earth is subject to the same type of heat—as evidenced by hot dense kundalini being present here. The extreme heat and the experience of being burned also features in popular conceptions of hell. So, there is

reason to believe that the most common type of ‘hot’ hell does literally exist below the Earth’s crust.

Geography of Earth-Based Heavens

Organisation of Rings in the Magmasphere

Almost every metaphysicist agrees that the astral and causal magmaspheres are divided into rings. Each magmasphere can be considered a ‘plasma crystal.’ Plasma crystals, which may be in the form of ensembles of particles held in a crystal-like array by a plasma of weakly ionised gas, had been devised by H Thomas and his colleagues. The assembly of micro-particles was contained between two electrodes and illuminated by a laser beam. Even with the unaided eye, it was seen that the particles arranged themselves regularly in as many as 18 planes parallel to the electrodes.⁸ Similarly, many metaphysicists identify 7 concentric rings (like onion rings) that form within each etheric, astral and causal magmasphere as a natural consequence of magneto-hydrodynamics. Each magmasphere has a dense centre (consistent with the cold dark matter model) with a specific polarity and a double-layered sheath with the opposite polarity. These are analogous to the two electrodes in Thomas’s experiment, cited above. In-between, each ring is bounded by an upper double-layered sheath and a lower double-layered sheath. Although the magmaspheres interpenetrate, the rings within each magmasphere generally do not. Each sheath is rife with surface currents.

According to Anthony Peratt, highly conducting plasma has a natural tendency to separate within charged particle sheaths or cellular-like walls. This structure appears wherever samples with different densities, temperatures or magnetic field strengths come into contact.⁹

Ring-Sheaths in the Magma Body

Leadbeater reports that the astral body after death, being freed from the binding energies of the biomolecular body, also organises itself into sheaths ¹⁰ (again, as a natural consequence of magneto-hydrodynamics). The astral magma body actually reinforces the sheaths having been freed from the physical-biomolecular body. When physically coupled with the biomolecular body, the astral body has an electrified sheath around it, but the sheaths around the different rings (separating magma of different densities and other properties) within the astral body are not yet fully developed—being under the influence of the biomolecular body. Once freed from the biomolecular body, however, electrified sheaths continue their development quickly to separate the rings. This confines the person’s awareness to only one ring in the astral magmasphere at a time. As each

ring (in the astral body) disintegrates, the next ring in the astral magmasphere comes into view. Although ring-sheath formation happens to most newcomers to the astral magmasphere (after the death of their physical bodies), it can be prevented by an act of will, according to Leadbeater.

Electromagnetic Domains

Beings that have magma bodies are subject to electromagnetic forces within the magmaspheres. From a physical perspective, the rings to which these beings will reach, based on their equilibrium positions in the magmasphere, is determined not only by the total mass of their bodies (which is determined by the mass and density of particles making up their bodies) but also the net electric charge and magnetic polarity in their bodies. The rings within magmaspheres are contained within electrified sheaths which levitate or gravitate magma bodies with a net electric charge. These electrified sheaths also act as electromagnetic fences—making it difficult for magma bodies to ‘escape’ or wander off to another ring. According to Paramahansa Yogananda, various ‘spheric mansions’ and vibratory regions are provided to astral beings. Astral beings of different grades are assigned to suitable ‘vibratory quarters.’¹¹ Advanced beings are, however, able to cross boundaries.

In my Father’s house are many dwelling places.

Saying attributed to Jesus of Nazareth ¹²

Leadbeater says that when the astral body has exhausted its attractions to one level, the greater part of its grosser particles (from the outer ring) will fall away, and it will find itself in affinity with a somewhat higher state of existence. Its specific gravity, as it were, is constantly decreasing. It steadily rises from the dense to the lighter strata, ‘pausing only when it is exactly balanced for a time’¹³—in other words when it is in an ‘equilibrium’ position.

The actual physical location of the lowest frequency hells and heavens can be confirmed once our detection techniques become more refined—probably within this century. An average human being may spend many hundreds of years in the Earth’s astral and causal magmaspheres.

The Magmaspheres

The physical Earth has a magmasphere (a combination of a ‘plasmasphere’ and a ‘magnetosphere’) in a ring around itself. The astral Earth, however, consists entirely of an astral magmasphere—composed of seven rings with decreasing densities of astral matter further away from the centre of the

Earth. Similarly the causal Earth, which consists entirely of a causal magmasphere, is composed of seven rings with decreasing densities. As we move-up the energy ladder, each ring becomes less dense, more tenuous and higher in frequency. Joel Whitton and Joe Fisher say, in their book 'Life between Life,' that 'each higher plane is lighter and brighter than the one before.'¹⁴

The environments interpenetrating the physical Earth are basically magnetised plasma environments, with beings in the form of balls of light whizzing about! Although it may seem strange and frightening now, there is metaphysical evidence that there are orientation programs and that everyone generally gets used to it after awhile.

Raymond Moody reports, based on his analysis of near-death experiences, that once through the 'tunnel,' the person usually meets beings of light which are not composed of ordinary light but super light. Near-death experiencers say they glow with a beautiful and intense luminescence that seems to permeate everything.¹⁵ If there are beings in these spheres, inevitably there will also be hierarchies and exchanges between different beings. There are governments and groups with different interests.

These magmaspheres are electromagnetic environments. The almost transparent magma ovoids in which beings reside keep them protected from radiation and other electromagnetic intrusions. According to a New Scientist journal report 'Plasma bubble could protect astronauts on Mars trip' in July 2006, researchers at the University of Washington, Seattle, US, are in fact 'seriously considering using a bubble of plasma to shield astronauts from radiation during long journeys through space.'

Earth-based Heavens and Hells

The astral world that most human beings would find themselves in after the death of their physical bodies is not in some other galaxy—it is on this very Earth, bound by the Earth's gravitational field. It is the Earth's astral magmasphere. According to Leadbeater the astral magmasphere surrounding and interpenetrating the physical Earth extends to a little less than the average distance of the Moon to the Earth. This distance is equivalent to 30 Earth diameters; which means that the radius of the astral magmasphere is 30 times the Earth's diameter. In other words, the astral magmasphere is incredibly huge or 27,000 times larger (in terms of volume) than the physical Earth! According to Paramahansa Yogananda, 'the entire physical creation hangs like a little solid basket under the huge luminous balloon of the astral sphere.' Plutarch, the Greek philosopher who lived in the first century A.D., wrote 'Every soul is ordained to wander between incarnations in the region between the Moon and the Earth.'

Yogananda also observed that ‘the astral day and night are longer than those of (physical) Earth.’¹⁶ Since the astral magmasphere is gravitationally coupled with the physical Earth, it too would rotate. However, since it is a larger sphere there could be a slowing down of the rotational speed, making a day in the astral magmasphere longer than 24 hours but the astral year would be the same as the physical year in terms of total duration. However, the number of days in an astral year would be less. Since, astral objects emit light; even the nights would be filled with lights in the astral magmasphere. The causal magmaspheres, however, extends further into space. While each sphere (the physical-etheric, astral and lower causal) interpenetrates each other, all of these do not generally communicate or have links with the corresponding spheres of any other planet.¹⁷

The actual locations of persons (who have left their physical bodies permanently) can be identified approximately—by taking into account that many inhabitants of the astral magmasphere live within rings around the Earth—which extends many kilometres above our heads and below the crust of the Earth. As people of the same religion tend to keep together after death just as they do during life, there is a kind of network of heavens belonging to people of the same religion but over different countries.¹⁸

A predominantly Catholic country would have a heavily populated Catholic heaven several kilometres above its surface but at a different longitude. There would be a longitude and time displacement due to the different rotational speeds of the physical and astral spheres. Similarly, a predominantly Muslim country would have a heavily populated Islamic heaven several kilometres above its surface.

Access to Other Planets

According to Leadbeater, matter of the lower planes is never carried over from planet to planet.¹⁹ Hence, most human beings after death do not find themselves in other planets. Leadbeater also says that only atomic matter of the astral and causal planes which is in an entirely free condition (i.e. in an uncompressed state) is co-extensive with interplanetary space. Consequently a person cannot pass from planet to planet in his astral or lower causal body than he can in his physical body (in the absence of any special technology). In a highly developed (higher) causal body, however, this is possible. Access to other planets, therefore, may be restricted for the super magma bodies discussed in this book. Only the highest energy bodies can have some access to other planets.²⁰ Contact with astral and causal beings in neighbouring planets—such as Mars and Venus (and also in the nearby asteroid belt) would therefore be rare. The habitats of these neighbouring planets in their dark matter extensions may be conducive to the related

type of beings, even if they are not conducive to physical life.

The extent to which the inhabitants of Earth's astral and causal universes have access to neighbouring planets, however, would also depend on their level of technology. For example, Paramahansa Yogananda has reported the use of astral vehicles or masses of light to travel from one planet to another.²¹ Technology is therefore as relevant to societies in the astral and causal magmaspheres of the Earth as it is relevant to us.

At certain times when the Moon does come closer to Earth, there is an overlap between the highest rings in the astral magmaspheres of the Earth and the Moon. It is also reasonable to assume that the physical-etheric, astral and causal magmaspheres of the Moon and Earth would be mutually attracted to the centre of gravity of the Earth-Moon system—generating high tides in the fluidic magmaspheres. There would therefore be an 'ebb and flow' of etheric, astral and causal matter. Our etheric, astral and causal bodies would similarly feel the ebb and flow in our bodies—causing changes in our emotional and mental states. The effects would be more pronounced every time the Moon's orbit brought it closer to the Earth or when the Moon was aligned with the Sun and Earth.

Phasing into different Spheres and Rings

In time, as the physical brain and sensory systems deteriorates, the locus of awareness shifts to the brain and sensory systems of the next higher energy body i.e. the astral body. This usually happens gradually and intermittently (as evidenced in pre-death experiences). As sensory impressions from physical objects grow weaker, sensory impressions from the higher energy universe become more noticeable and vivid. So, gradually, almost imperceptibly, the person begins living and operating in a different world. Gradually he will start seeing the counterpart astral bodies of his 'living' family and friends, rather than their lower frequency physical bodies (just as he could only see their physical bodies when he was using his physical brain and sensory systems). The same sequence of events occurs when phasing into the next higher-energy universe and the next one and so on.

A person therefore phases into different rings and spheres of the astral and causal magmaspheres when he loses sight of the objects and inhabitants of one ring relating to a particular sphere while becoming more conscious of the objects and inhabitants of another ring. For most of us, at death the locus of awareness is transferred to the astral body, and at once we find ourselves in Earth's astral magmasphere, having lost sight of the physical Earth. When later on we lose the astral body and the locus of awareness is transferred to the causal body, we are then conscious only of the causal universe, and would lose sight of the astral and physical universes.²²

Filamentary and Birkeland currents on Earth

Rings and electrified sheaths are consequences of plasma magneto-hydro-dynamics. Another signature feature of magma is of course filamentary currents. Filamentary currents are present not only in space but in our magma bodies and also within the dark matter counterparts enveloping the Earth. Each ring in a particular magmasphere is bounded by electrified sheaths which have surface currents.

In addition, invisible filaments and Birkeland currents abound on Earth. These filaments are what have been called 'ley lines'; which are alluded to in Chinese feng-shui studies. When these filaments cross they pinch, collapsing to form nodes, which give rise to vortexes within our planet. These vortexes have been identified as 'holy sites' by various spiritual traditions. Ley lines, or leys, connect ancient holy sites—just as filaments connect vortexes.



Earth's Etheric, Astral & Causal Magmaspheres

The Etheric MagmaSphere

Blake Levitt, in his book, 'Electromagnetic Fields' notes that the natural background voltage increases with altitude. Between the lowest layers of the ionosphere and the Earth's surface, there are about 360,000 volts; from the top of the Empire State Building to the sidewalks at its base, there are approximately 40,000 volts, and between the head of a six-foot man and the sidewalk, approximately 200 volts. At the Earth's surface, the voltage is approximately 100. This sounds alarming, but in fact hardly any shock potential exists because there is no current; it is just background voltage and static DC fields.¹

Scientists know very little about this huge reservoir of natural power—how it functions or what governs it. Just like the pattern of voltage gradients over the biomolecular body, the pattern of voltage gradients over our planet is difficult to explain—based on current Science. Perhaps, just like the pervasive magnetic fields in space, they are the result of dark matter in a plasma state—specifically the lower etheric double of the Earth. The Earth's electromagnetic field betrays the presence of Earth's etheric double—with its meridians (or filaments), chakras (or vortexes) and main vertical power current.

The Earth's physical-etheric magmasphere is (presumably) coterminous with the dense physical Earth (since it is its 'double'). Like the other magmaspheres, we can also assume it has seven concentric rings—with electrified sheaths separating one ring from another.

The Astral Magmasphere

First Station after Physical Death

The idea of an astral body floating free of an immobile corpse, wending its independent way to wherever it is that astral bodies go, is attractive and interesting, and in many ways the most concrete speculation about immortality.

Danah Zohar, Physicist ²

According to Leadbeater, what we call the astral magmasphere may also be considered the astral body of the Earth. It exists all around us, and interpenetrates the solid physical Earth beneath our feet and extends far away above our heads—a huge ball of astral matter with the physical Earth in the middle of it, much as the physical body of a man exists within the ovoid form which is filled with astral matter.³

Immediately after the intensive phase of the death process of the physical body, most human beings would find themselves still on Earth—but in the higher frequency astral magmasphere of the Earth, not the physical Earth. Immediately after the death of all the physical bodies, a human being's location in the astral magmasphere can be estimated. However, over time, a person's equilibrium position in the astral magmasphere changes as the density, net electric charge and magnetic polarity of the super magma body changes. They would then be more difficult to locate from our location (unless we have accurate information on how they evolved).

Some people tend to hover around their Earthly homes, in order to keep in touch with their friends of the physical life and the places which they know; but the great majority of beings who have recently lost their physical bodies spend most of their lives comparatively near to the surface of the physical Earth, in the astral magmasphere. However, as they withdraw into themselves and their locus of awareness shifts to higher frequency rings, they find it easier and more natural than before to soar farther away from the Earth's surface into less populated regions where there are less disturbances.⁴

According to Paramahansa Yogananda, the recently physically disembodied being arrives in an astral family through invitation, drawn by similar mental and spiritual tendencies.⁵ The astral universe has a propensity

to manifest and objectify the emotions and thoughts of an individual, just as the astral body (which is composed of the particles and matter of the astral universe) of the individual does. It has four space dimensions and one time dimension. The Kaluza-Klein theory (in mathematical physics) has the same spacetime signature. The Kaluza-Klein theory, to some extent, is therefore a mathematical model of the astral universe. A large part of the descriptions below of the various magmaspheres and rings are compiled from writings by C W Leadbeater (*The Inner Life*, 1910-11), the compilations of Arthur E Powell (*The Astral Body*, 1927; *The Mental Body*, 1927 and *The Causal Body*, 1928) and Paramahansa Yogananda (*The Autobiography of a Yogi*, 1946).

Sheath-Formation on Entry into the Astral Universe

Generally, most beings (with magma bodies) are confined to particular planes, branes or rings (consistent with findings in plasma crystal technology). According to Leadbeater, during the life of the physical body the astral body circulates particles with a variety of densities within its body. Because of this, the body is able to perceive objects even in the higher astral rings. However, when the astral body is released on the death of the physical bodies, the magma immediately starts to reinforce the sheaths to separate regions with different densities and other physical attributes within the astral body.

As noted earlier, magnetic plasma has a natural tendency to form sheaths. The formation of these sheaths blocks-off communications with higher energy rings of the astral magmasphere. This gradual blocking-off process is evidenced by a 'step-down' to a lower state of awareness after enjoying a short interval of multi-ring awareness immediately after the death of the physical bodies. However, since the astral body is very responsive to thoughts, this blocking-off process can be prevented by an act of will, according to Leadbeater. In this way a person's astral life will be more complete from the time he becomes aware of the astral universe and not restricted to only one ring or plane.⁶

Lower Astral Magmasphere

Seventh Astral Ring—Hell in Earth's interior

The seventh or lowest astral 'ring' penetrates some distance into the interior of the Earth, so that the entities living in it may find themselves actually below the crust of the Earth. This inner 'ring' is composed of high density astral matter which has been compressed by the high pressures imposed by the astral matter in the larger astral magmasphere (compared to the physical sphere). In this sphere the density is so high

that it is indescribably loathsome to the liberated astral body. Moving through such an environment would be like pushing your way through a black, hyperviscous fluid, while the inhabitants and the influences encountered there are also usually exceedingly undesirable. The only persons who would normally awake to consciousness on this sphere are those who have a highly dense astral body as a result of having desires which are consistently gross and brutal—drunkards, sensualists, violent criminals and the like, according to Leadbeater.⁷

Sixth, Fifth and Fourth Astral Rings—Private Worlds

The sixth ring is partially coincident with the surface of the Earth. Rings 6, 5 and 4 have for their background the physical world with which we are familiar. Life on ring 6 is like ordinary physical life, minus the physical body and its necessities. According to Leadbeater, the astral counterparts of solid physical objects—the floor, walls and furniture of a room are all of the lowest type of astral matter, and consequently the new arrivals to this ring usually see these counterparts vividly. There is, therefore, no necessity for the inhabitants of the sixth astral ring to create astral objects. Most of the physical objects already have their counterparts.⁸ They also find themselves surrounded by the astral counterparts of physically existing mountains, trees and lakes, and consequently do not generate any scenery for themselves.⁹

Rings 5 and 4 are less dense and more withdrawn from the lower world and its interests. Earthly associations become less important and the beings there tend more and more to mould their surroundings into agreement with their more persistent thoughts. These rings also contain many cities. According to Michael Talbot, near-death experiencers and others describe metropolises with remarkable consistency. The most notable feature of these great cities is that they are brilliantly luminous. Swedenborg said that it was a place of 'staggering architectural design, so beautiful that you would say this is the home and the source of art itself.'¹⁰

Higher Astral Magmasphere

Third and Second Astral Rings—Religious Communities

Leadbeater says that the third astral ring extends many kilometres up into the atmosphere. This ring is further removed from the physical world and correspondingly less matter-like and more mind-like. Magma beings lose sight of the Earth (i.e. the surface of the Earth) and they are usually deeply self-absorbed. To a large extent they create their own surroundings which are sufficiently objective to be perceptible to other entities. They live in imaginary cities of their own, partly creating them entirely of their own

thoughts, and partly inheriting and adding to the structures created by their predecessors.¹¹

According to Leadbeater, beings of these rings surround themselves with landscapes of their own construction, though some avoid that trouble by accepting ready-made landscapes constructed by others. They construct for themselves weird scenes described in various scriptures. These are mostly clumsy and unimaginative attempts to reproduce ideas such as jewels growing upon trees, seas of glass mingled with fire, creatures with eyes all over the surface of their bodies; and deities with a hundred heads and arms to correspond. The second astral ring is the habitat of the selfish or unspiritual religionist. Here he wears his golden crown and worships his own gross representation of the particular deity of his country and time.¹²

Robert Monroe calls rings 3 and 2 the 'Belief System Territories.' According to him, it is in these belief system territories that we find groups of people who have been attracted together by their shared beliefs during physical life. Here we will find the heavens of all the major religions which have been generated by human consciousness and by religious leaders preaching over centuries about their heavens that their devotees will arrive at after death.¹³

This level of consciousness or region of the afterlife is also known as the 'hollow heavens.' People, who arrive in these hollow heavens after death, live according to what has been taught to them during life, as to what to expect in heaven. A person may reside in one of these hollow heavens until a point arrives when they start to notice inconsistencies in the particular doctrines that their religion preaches. At this point, they can no longer resonate with those present in that particular hollow heaven and they will leave.¹⁴

First Astral Ring

Materialistic Intellectuals

The first astral ring is currently peopled with those who during their Earth-life have devoted themselves to materialistic but intellectual pursuits, following them not for the sake of benefiting their fellow-men, but either from motives of selfish ambition or simply for the sake of intellectual exercise. These beings may remain in this ring for many years, happy in working out their intellectual problems, but doing no good to any one, and making little progress on their way towards the next higher energy magmasphere.¹⁵

Nature of the Astral Magmasphere

The person who first arrives upon the astral magmasphere (after leaving permanently the physical bodies) does not always realise that his physical bodies are dead, and even when that fact comes home to him, it does not

follow that he at once understands how the astral world differs from the physical. In the physical world a person requires a number of necessities: food, clothing and shelter. In order to procure these he must have money. All these ideas are so ingrained in new arrivals, that they often find it difficult for a long time to believe that they are really free from these wants. The new arrivals to the astral magmasphere may try to eat or build themselves houses.

No need for food

The astral body changes its particles as does the physical, but fortunately the tiresome process of cooking, eating and digesting food is not a necessity on the astral plane. The purely physical cravings of hunger and thirst no longer exist; but the desire of a glutton to gratify the sensation of taste, and the desire of the drunkard for the exhilaration which follows, for him, the absorption of alcohol—these are both astral in origin, and therefore they still persist, and cause great suffering because of the absence of the physical-biomolecular body through which alone these psychological addictions can be appeased.

No need for sleep

There appears to be no need for sleep in the astral world. On the astral plane there is no feeling of fatigue. However, there is a gradual reduction in energy when the end of the astral life approaches.

Friends may appear differently

Knowledge of a person in the astral world does not necessarily mean knowledge of the physical form of that person. As noted earlier, astral counterparts do not mirror the physical, unlike the etheric double. They may appear quite different, depending on their emotional and mental states. Thought can have a significant effect on higher energy magma bodies. Even in after-death communications, people have reported that their dearly departed have appeared to them quite differently, one or two years after their deaths. This happens when the departed migrate from the etheric to the astral magmasphere. Despite this, astral friends can recognise each other, perhaps because of the resonant frequency of their magma bodies.

Pleasures are greater

Astral pleasures are much greater than those of the physical world. It is quite impossible to realise while one is confined in the physical body the great attractiveness of these pleasures. But even the delights of astral life do not present a serious danger to those who have realised a little of

something higher, according to Leadbeater. After the death of the physical bodies, you should try to pass through the astral rings as speedily as possible, consistently with their learning utility, and not yield to its refined pleasures any more than to the physical. One must not only overcome physical desire by knowledge of the astral and causal existences, but also go beyond even these, not merely for the sake of the joy of the spiritual life, but in order to replace the temporary by something more permanent, advises Leadbeater.

Sense of Touch

As an astral being, when you are standing on the ground, part of your astral body would interpenetrate the ground under your feet. However, you will not be aware of a sensation of hardness. You will never touch the surface of anything, so as to feel it hard or soft, rough or smooth, hot or cold. On coming into contact with the interpenetrating substance you would be aware, however, of a different rate of vibration, which might of course be pleasant or unpleasant, stimulating or depressing.¹⁶ Q-balls can and do exchange electric charge when they meet. Hence, when two electromagnetic super magma bodies or objects (composed of Q-balls) come into contact, electromagnetic rather than mechanical transactions take place.

Lighting

In astral life there is a diffused luminosity, not obviously coming from any direction. All astral matter is in itself luminous due to the 'aurora effect.' An astral body may appear like a living fire. If it is also transparent, there will be no shadows. It is never dark in the astral magmasphere—from the sixth ring upwards.

Communicating with other Beings

According to Leadbeater, it would not be correct to say that the language of the astral world is thought-transference—although it may appear to be so to new entrants to the world. The most that could be said is that it is the transference of a thought formulated in a particular way. In the causal magmasphere one formulates a thought and it is instantly transmitted to the mind of another without any expression in the form of words. Therefore in that sphere language does not matter in the least; but helpers working in the astral magmasphere, who have not yet the power to use the causal vehicle, must depend on the facilities offered by the astral magmasphere itself. These are situated, as it were, midway between the thought-transference of the causal world and the concrete speech of the physical, but it is still necessary to formulate the thought in words. It is as though

one showed such formulation to the other party in the dialogue, and he replied (almost simultaneously, but not quite) by showing in the same way his formulated reply. For this exchange it is necessary for the two parties to have a common language; therefore the more languages an astral plane helper knows, the more useful he is.¹⁷

A thought-ball may be sent by one party to another. Near-death experiencers say that often during visions, information arrives in 'chunks' that register instantaneously in one's thoughts. Rather than being strung out in a linear or sequential fashion, like words in a sentence or scenes in a movie; all the facts, details and images burst into one's awareness in an instant. One near-death experiencer described it as 'bundles of thought.'¹⁸

An astral being could grasp at the astral counterpart of the hand of a living man, but as the two hands would pass through one another without any sense of contact, there would be no purpose in doing this. So do not bother to shake hands when you are introduced to an astral being! Send a 'thought-ball' instead.

According to Sanduloviciu, plasma spheres can communicate information by emitting electromagnetic energy, making atoms within other spheres vibrate at a particular frequency—acting as a vibrating diaphragm in a telephone to communicate information from one source to another.¹⁹ A similar form of communication would operate in our super magma bodies.

Continuous Learning Opportunities

It is quite possible for any person in the astral magmasphere, after the death of his physical bodies, to study and to acquire entirely new ideas. There was a case reported by Leadbeater in which a lady learned 'music' there.²⁰

Habits die hard

A man does not rid himself of evil tendencies in the astral world any more than he would in this life, unless he definitely works to that end. Many of the desires which are strong and persistent need a physical body for their satisfaction; and since he no longer has that, they often cause him acute and prolonged suffering. However, in time they wear themselves out, atrophy and die-out because of the impossibility of fulfillment. In the same way the matter of the astral body slowly wears away (ring by ring) and disintegrates as the locus of awareness is gradually withdrawn from it by half-conscious efforts. The person, by degrees, gets rid of whatever holds him or her back from the causal world.²¹

The Lower Causal Magmasphere

Beyond the heaven visited, there was another heaven, one so brilliant and formless to perception that it appeared only as a 'streaming of light.'

Emanuel Swedenborg ²²

According to Leadbeater, the causal magmasphere of our Earth bears about the same proportion to the astral as the latter does to the physical. It is also a huge globe, concentric with the other two, interpenetrating them both, but extending much further from the centre than does the astral globe. The causal universe is less dense than the astral universe and is even more responsive to thoughts and ideas, allowing visualisations to be generated and maintained easily. It is the function of lower causal matter (in its crystalline state) to vibrate in response to the modes of the intellect, just as astral matter (in its liquid state) plays a similar role for desire and emotion.²³

Seventh Causal Ring—Family Devotion

This ring is characterised by beings with communal and family affections. According to Leadbeater, a striking characteristic of this ring for the last few centuries has been the very large number of beings whose principal unselfish activity found its outlet through family affection.²⁴

Sixth Causal Ring—Devotional Contemplatives of Personal Gods

This ring is populated by beings with devotion to personal gods—based entirely on faith, with very little analytical rigor. The striking characteristic of the sixth ring of the causal world may be described as anthropomorphic religious devotion. This phase consists essentially in the 'perpetual' adoration of a personal deity—each wrapped up in a cocoon of his own thoughts, alone with his god, and oblivious of the rest of mankind except in so far as his affections may associate those whom he loved on Earth with his adoration of his deity.²⁵

Fifth Causal Ring—Active Devotees

The chief characteristic of this ring is devotion expressing itself in active work. A nun was constantly occupied in feeding the hungry, healing the sick, clothing and helping the poor, the peculiarity of each case being that each person, to whom she administered, at once changed into the appearance of the Christ, whom she then worshipped with fervent adoration. Two sisters, one crippled and the other devoted to tending her had discussed on Earth the religious and philanthropic work they would carry out if they

were able to do so. In the heaven-world, each is the most prominent figure in the heaven of the other, the cripple being well and strong, while each thinks of the other as working with her in carrying out the unrealised wishes of her Earth life. On this ring are found the higher type of sincere and devoted missionaries, engaged in the congenial occupation of converting multitudes of people to the particular religion which they advocated.²⁶

The three lower heavens (as described above) are concerned with the working out of devotion to personalities, either to one's family and friends, or to a personal deity, rather than the wider devotion to humanity for its own sake.

Fourth Causal Ring—Analytical Religionists

Beings that 'wake-up' in this ring would usually have been preoccupied previously with unselfish and non-egoistic pursuit of knowledge and art and/or service for service sake. This ring holds entities involved in more abstract thinking and is the last ring in the lower causal magmasphere. Here we find beings that bring analytical rigor to their religion. A scientist who is inspired with religious feelings arising from his scientific work and the highly analytical religious person would be found here.²⁷

The Higher Causal Magmasphere

The higher causal magmasphere includes the highest three causal rings. According to Paramahansa Yogananda, the causal world is indescribably subtle. In order to reach it, you would have to possess tremendous powers of concentration; so that if you closed your eyes and visualised the physical and astral Cosmos in all their vastness, you would realise that they exist only as ideas. If by this concentration you succeeded in converting or resolving the physical and astral universes with all their complexities into sheer ideas, you would then reach the causal world. There you will perceive everything as forms of consciousness, just as a man can close his eyes and realise that he exists, even though his body is invisible to his physical eyes and is present only as an idea.

Souls in the causal world recognise one another as individualized points of joyous Spirit; their thought-forms are the only objects that surround them. Causal beings see the difference between their bodies and thoughts to be merely ideas. Both death and rebirth in the causal world are realised in thought only.²⁸ The causal universe resembles Plato's ideal mathematical universe. It is mind-like rather than matter-like—a universe of 'ideas' rather than 'things.'

Escape from the multiverse

Yogananda believes that man must undergo countless physical, astral and causal incarnations before emerging from the three (sets of) bodies. Beings with unredeemed physical karma shuttle back and forth between the physical and astral worlds only. Those freed from all physical longings need no more to return to the gross vibrations of the (physical) Earth. 'Such beings have only their astral and causal karma to work out,' he says.²⁹

Many beings remain for thousands of years in the causal Cosmos. However, by deeper ecstasies they withdraw from the little causal body and put on the vastness of the causal Cosmos. No longer does the 'being' experience its joy as an individualized wave of consciousness; it is now integrated with the luminous cosmic ocean. When a being stops identifying itself with any personal body and escapes the multiverse forever it becomes the ineffable Ever-Existent. The soul realises it is Spirit in a region of light-less light, dark-less dark, thought-less thought ³⁰ (i.e. a superposed 'region' of perfect symmetry).

The density of magma bodies is highest in the physical universe and peters out to a very low density in the causal universe. Going further would mean having no personal body and realising yourself as the perfectly symmetric void—the goal of spiritual evolution in most religions. This 'personal' spiritual evolution is in fact a natural process—just as the gradual universal dissolution of all the universes into the void is a natural process, brought about by natural forces. The individual can however accelerate or retard the natural movement.

[Fritz-Albert] Popp thought the zero point field forces a human being to be a candle. The healthiest body would have the lowest light and be closest to zero state, the most desirable state—the closest living things could get to nothingness.

Lynne McTaggart ³¹



Inter-Sphere Interactions

UFOs

...be careful not to confuse manifested systems existing on different planes of being, one within the other [based on the particle size and wavelength] with the far-flung solar systems and galaxies on the physical plane with which astronomers deal.

I K Taimni, 1974 ¹

Taimni cautions that astrophysical measurements made by scientists currently are all on the physical plane, on the same plane on which our physical Earth exists. They belong to the same range of vibrations and particle sizes and it is therefore possible to establish communications with them through our (physical) sense organs and instruments like the telescope. The entities from the astral and causal universes, on the other hand, are in entirely different bands of frequencies and particle sizes and so quite beyond the scope of our physical instruments—in other words, part of what scientists now classify as dark matter and energy. Taimni says the latter can be reached only from within, through the subtler (bodies and) levels of mind and consciousness.²

Reported UFO abductions usually relate to 'abductions' of our etheric doubles. No signs or only very subtle signs are seen on the physical body after any close encounters with dark matter aliens. It has been commented by researchers that these 'abduction scenarios' have many elements in common with 'astral travelling' and 'near-death experiences'—as they should—since all these events involve magma bodies in parallel super universes and not the physical body. Telepathy is also frequently associated with abductions. Kenneth Ring believes that these encounters are 'imaginal experiences'—experiences which are midway between mind and the 'hard' physical world. It is a real but mind-created world individuals experience during near-death experiences and the mythic realities that shamans encounter during journeys through subtler dimensions.³

Dark matter spaceships are crystallised astral matter shaped and sculpted by trillions of thought-waves generated by millions of astral bodies, belong to contemporary human beings in the physical sphere; who watch movies and TV and those who have left their physical bodies permanently and currently reside in the fifth and fourth astral rings. As noted previously, these rings are fairly high up from the Earth's surface, yet still clearly visible from the surface. Most UFO sightings originate from the fifth and fourth astral rings. As noted previously, in these rings objects are created or manifested from persistent thought-forms.

Astral entities (with no corresponding physical bodies) or even the astral bodies of other humans (who are asleep) can easily assume the shape and character of 'aliens'—seen in the movies or TV. These aliens are dark matter entities who use dark matter spaceships—which generally do not register on the known electromagnetic spectrums—but can do so if their frequencies are brought down to the lower etheric range. If the frequency approximates the frequency of the lower etheric body, many human beings would be able to see them. If the frequency is brought down further, they would register on radar screens.

One of the objections to UFO sightings is that it will be almost impossible to travel the distances to even the nearest star with a planetary system which could harbour intelligent life. These UFOs do not originate from our universe, but from higher-energy super mind-like universes (which interpenetrate our universe and where the rules of engagement are semi-classical to near-quantum). It is easier for any 'alien' from an Earth-based super astral universe to visit us than someone from another planetary system in our physical universe. Furthermore, depending on the magmasphere they are coming from (etheric, astral or causal) the nature of their manifestations would also be different. Many thought-forms generated by human beings populate Earth's etheric, astral and causal magmaspheres and are

'picked-up' and used by inhabitants there. We will realise that most of the encounters with aliens or ghosts are really sporadic encounters with beings from parallel interpenetrating Earth-based magmaspheres.

There is no indication that the UFO phenomenon is extraterrestrial. Rather than being from other star systems, there is mounting evidence that UFOs come from a multiverse which is all around us, and of which we stubbornly refused to consider in spite of the evidence available to us for centuries.

Jacques Vallee, *Dimensions: A Casebook of Alien Contact* ⁴

Religious Apparitions

Religious apparitions would generally emanate from the third astral ring (the sphere of 'religious communities'). The same explanation applies to them as for UFOs. Trillions of thought-forms are generated by the religious in this ring above the Earth's surface, creating religious etheric and astral entities and icons.

There are also previous human beings who led a spiritual life and who have a genuine desire to interact with human beings on Earth to accelerate their 'development' just as there are many such people on Earth helping other people. They have found ways to manifest themselves for short periods within our electromagnetic spectrum in our physical-etheric sphere by attracting physical-etheric particles, which increases the density of the magma body and lowers its frequency. The Report of the General Information and Complaints Department, Zeitun, Egypt states in an official statement issued in 1968 that 'Official investigations have been carried out with the result that it has been considered an undeniable fact that the Blessed Virgin Mary has been appearing on Zeitun Church in a clear and bright luminous body seen by all present in front of the church, whether Christian or Moslem.'

This task uses up a lot of energy for these beings and presumably, based on anecdotal evidence; they would need permission from the administration in the relevant heaven. Hence, their appearances are rare. If they are residing in higher rings or spheres, it constitutes a considerable sacrifice on their part to 'come down' (literally, in terms of frequency) to communicate with us on something that they really believe in. However, they are not omniscient. They are evolving in the relevant magmaspheres, as much as we are evolving in this sphere due to natural universal forces. Their previous experience on Earth as human beings and their subsequent experience constitute a unique experience which they want to share with others. Events

that are generated under this category include Marian apparitions and other religious apparitions which are public in nature. Michael Talbot says that Marian visions are not appearances of the historical Mary, but psychic holographic projections created by the collective unconscious.⁵

Balls of Light

Fatima is now well known to the Catholic world. 'Our Lady' first appeared to three small children tending sheep near Fatima, Portugal on May 13, 1917 and asked that they return to the site on the thirteenth of each month until October. Before this, in the spring of 1916, the children were tending their sheep at a rocky knoll not far from their home. A sudden strong wind on a calm day startled the three peasant children out of a game they were playing and they saw across the valley a dazzling globe of light like a miniature sun, gliding slowly towards them. As it approached, the ball of light gradually resolved itself into a brilliantly shining young man. According to the children they saw 'a light whiter than snow in the shape of a transparent* young man, who was more brilliant than a crystal struck by the rays of the Sun.' He identified himself as the 'Angel of Peace' and enjoined them to recite a prayer. Then he disappeared by fading away. (* Magma bodies can change their degree of opacity.)

On 13 September 1917, an assembled crowd saw a bright ball in the sky coming from the east, which glided majestically into view for a few seconds but then vanished, as far as the crowd was concerned. The children, however, see a luminous globe hovering on a little oak tree. The Virgin speaks to the children then returns the way she had come—in the shape of an easily visible luminous ovoid moving away in the direction of the Sun, 'calmly but with a certain speed,' before disappearing. The plasma ovoid, as we have discussed earlier (in Chapter 12), is the basic form of intelligent beings in the astral and causal magmaspheres.

Several researchers have pointed out that the Marian apparitions have many features of UFO encounters.⁶ Jacques Vallee has argued that the 'glowing globes of light' can be interpreted as vehicles and were regarded as such by some of the people who saw them.

Ghosts

Most of the ghosts encountered originate in the etheric and astral rings coincident with the Earth's surface.

Etheric Ghosts

As mentioned previously, the etheric double may not necessarily dissolve immediately on the death of the physical-biomolecular body. It may take the

whole of the 'bardo' period for these to dissolve. In this context, the bardo is the interval between the first death (of the physical-biomolecular body) and the second death (of the physical-etheric body). Although, Tibetan Buddhists state a maximum of 49 days for the bardo period, the 14th Dalai Lama himself admits that there is evidence that this may extend to even more than one year⁷— which accords with observations from other cultures. As long as the etheric double is not dissolved, the person will not be aware of the next higher energy universe (usually the astral universe). It will be 'stuck' inside the physical universe—visiting familiar places.

The person may intentionally or unintentionally meet living persons who have projected their (higher) etheric doubles during their sleep at that moment. When they wake up, most living persons will describe 'dreams' when they met with their recently deceased. The appearance of the etheric double will be very close to their (gross) Earthly appearances since they have not really left the physical universe (unlike the astral body which may be quite different from their earlier appearances).

Astral Ghosts

Although less common than etheric doubles, astral beings inhabiting the sixth ring of the astral magmasphere (which is coincident with the Earth's crust) may also be encountered.

In the end, it became a choice between entertaining ghosts or working in a multi-dimensional space, and physicists, who are traditionally horrified of the metaphysical, chose the latter.

David Peat ⁸

Using ordinary perception within our spacetime means that certain beings, who would appear quite ordinary in a higher dimensional spacetime, would appear to have a ghostly appearance in our frame of reference. If we could develop our perceptions to include more dimensions, these apparent ghosts would turn out to be seen as ordinary beings—inhabiting a parallel inter-penetrating universe.

Many familiar ghostly sightings appear as (clothed) humans. However, one striking feature is that these appearances normally lack detail and are 'blurry.' It is like an unfocussed image on a screen. A person with myopia would see blurry figures when he removes his spectacles. However, when he puts on his spectacles, these blurry figures become concrete, definite images. Similarly, the average human being would see 'ghosts' as blurred images only because he has not developed his sight in his other bodies corresponding in frequency to the type of ghosts.

Collisionless Ghosts

You cannot 'collide' with ghosts because they are composed of 'collisionless' plasma. However, electromagnetic effects can be felt as their bodies glide near or through your own electromagnetic magma bodies.

We don't know what the remaining 90% of matter is, but this 'dark matter' differs from ordinary matter in being able to pass right through both ordinary matter and other dark matter, just like ghosts are supposed to pass through stone walls.

Theoretical Astrophysics Group,
University of Oxford⁹

Ron Cowen says, 'Evidence indicates that when speeding fragments of dark matter meet, they don't collide as other matter does but pass right through each other, ghostlike.'¹⁰

Etheric ghosts of human beings are more frequently seen than astral ghosts because they are closer in frequency to our world. Astral and other higher energy bodies are usually not sighted because of their much higher frequencies. The bodies of these ghosts vary in density—depending on which magma body is remaining near the Earth after the death of the biomolecular body or when a person is sleeping. Hence, some of the so-called 'ghosts' may actually be of persons who have still not left their biomolecular bodies completely (whom we normally refer to as the 'living').

Life in the sixth astral ring is like ordinary physical life, minus the physical body and its necessities. This astral ring would have structures similar to the physical structures which mould it. In other words, many of the astral beings at this level would be occupying the same houses that we do—being astral replicas of our physical houses—much like in the movie 'The Others' in 2001, starring Nicole Kidman and written by Alejandro Amenábar. By studying the nature of the matter in this ring, we would have a better understanding of these ghosts.

Visibility

Ghosts seen in buildings and other surface structures are actually all around us but only become visible in certain conditions. More frequent sightings may occur at night simply because the form of a ghost 'fades' in bright sunlight—using our biological eyes. They are more clearly seen at night—but they are all around us all the time—just as stars are in the sky all the time but become visible (to us on Earth) at night. Historically, therefore, we have associated ghosts with the night.

Pleasant and Unpleasant Ghosts

The beings which we call 'ghosts' conduct their lives just as we conduct our lives. Just as there are pleasant people and unpleasant people, there are pleasant etheric and astral ghosts and unpleasant ones. The literature often highlights the unpleasant encounters. Nevertheless, considering that beings in the sixth astral ring are generally those who have preoccupied themselves with mainly denser thoughts and emotions—close in frequency to the biomolecular body, a certain lack of patience and immaturity can be expected from them. Also, etheric ghosts who are unable to carry on with the death process would most likely have unresolved psychological issues. Most of the pleasant and helpful beings emanate from higher rings. An unpleasant person in this life, however, would probably be an unpleasant etheric or astral ghost, immediately after his death. A pleasant person in this life would probably be a pleasant etheric or astral ghost, immediately after his death.

According to Leadbeater, one difficulty of the recently disembodied is that they usually require considerable experience before they can clearly identify objects and get used to their surroundings—just like a baby which requires learning to use its muscles to walk. The stone-throwing, trampling, or vague movements of purported ghosts in haunted locations are attempts by recently disembodied persons to come to terms with their new environments. A person will be even more bewildered if he has not known something of such matters before death.¹¹

Many times we also hear of ghosts who (from our perspective) give out a 'devilish laughter' when they encounter people who are extremely nervous when sighting ghosts. One would imagine that if you were playing the role of a ghost, you would equally be amused by someone who becomes hilariously nervous on seeing you. Due to anomalies in inter-spheric communications, the sound of the laughter becomes distorted into a 'devilish' or 'eerie' scream. Some of these ghosts may take advantage of this fear in laymen—just for amusement, perhaps.

Many of these dark matter ghosts, also, may not agree with us that they have died; or that they are 'ghosts.' In fact, they are right and we are wrong because only their physical bodies have disintegrated. Classifying 'ghosts' as belonging to 'dead' persons is like considering a human being with only a leg amputated dead. Only their physical-biomolecular bodies are dead. In fact, they are more alive than us since they have activated and are conscious of their higher energy bodies. Medical definitions, such as 'clinically dead' are only relevant to biomolecular bodies—not the accompanying magma bodies.

Electromagnetic Interactions with Recent Departees from this Universe

It has been argued earlier that the etheric double and astral bodies are electromagnetic bodies. A person who has recently lost his biomolecular body and whose etheric double is still intact may have control over his electromagnetic body to cause electromagnetic interferences. The person may lack mechanical control over objects but he may have sporadic control over electrical and electronic devices—for example light switches and computers.

Lights may go on and off without any mechanical change in the position of the light switch. Similarly, messages may appear on the computer screen without any movement of keys in the computer keyboard. Some have even claimed that broadcasts of various beings from parallel spheres have been transmitted and received by television. This is not inconceivable—considering the electromagnetic nature of parallel super universes and their beings. The ability to receive broadcasts from low frequency (interpenetrating) super universes may be possible within this century.

Invisible Helpers and 'Angels'

Invisible beings that help others in accidents or in other situations are popularly described as 'angels.' These invisible helpers are most likely astral beings inhabiting the sixth astral ring, which is coincident with the Earth's crust. They could even be former friends or family members who have lost their physical bodies or people who are asleep. Many people, even in our physical Earth, go out of their way to help others. But how do these invisible helpers know when we are in trouble?

Leadbeater says it is possible for a being functioning on the astral plane to be aware of a physical accident even when he cannot hear the physical cry. 'Physical' sounds produce an effect upon the astral plane; though I do not think, he says, that we should be quite correct in calling that effect 'sound.' This is quite correct, since we are actually talking about acoustical waves in magma bodies. Leadbeater says that any cry which had in it a strong feeling or emotion would cause dramatic changes in the astral environment. This is consistent with the nature of the astral environment, as previously discussed. In the case of an accident, Leadbeater says, the rush of emotion caused by the pain or the fright would flame out like a great light, and could not fail to attract the attention of a seer if he were anywhere near. Leadbeater gives us an example where a boy who fell over a cliff was supported and comforted by an invisible helper until physical help arrived.¹² There are many such stories—almost all evidencing encounters with beings from parallel universes.



Meditation and Magma Bodies

Meditation—Life in the Fast Lane

The journey from the lower energy body to higher energy bodies and from the lower energy sphere to the higher energy spheres can be travelled in a gradual natural path. In this case, events are longer apart and follow natural growth patterns. Alternatively, an accelerated growth path can be undertaken with serious meditation. Serious meditation involves the same journey through exercises which allow a person to change states of consciousness, bodies and universes. In the gradual (natural) path, the astral body is developed while in the physical bodies. When the physical bodies die, the astral bodies live on and develop the causal bodies. At any point, though, the individual can decide (by his intentions and lifestyle) to go up to more subtle levels or down to grosser levels. There will therefore be journeys to and from the physical, astral and causal universes over thousands or millions of years. If the individual decides, he or she can escape the multiverse altogether by circumambulating into the void—after the dissipation of the causal bodies. These processes, which take place over very long periods of time, can actually take place in a few lifetimes through meditation.

In meditation the content of the memory in astral and causal bodies (represented by *samskaras* and *vasanas*) are dissipated while in the biomolecular body. When the biomolecular body dies, there is only a very short journey

through the astral and causal universes, before realising the unmanifest perfectly symmetric void. This is an express route, an accelerated escape from the manifest multiverse.

Quantum Processes

The idea that our minds are generated from quantum processes, rather than from purely neural processes in the brain is becoming more popular. The particular characteristic that has been singled out to explain the similarity between our minds and quantum nature is the superposition principle in quantum mechanics. The superposition principle, when applied to minds, explains free-will and creativity which are the chief characteristics which distinguish the brain of a human being from a twentieth-century computer.

However, the chief objection to the notion that quantum processes can play any part in generating our minds is that our brains are 'too hot and wet' to allow for quantum phenomena. It has already been pointed out that the journey upwards to higher energy universes is similar in many ways to the journey downwards to the microscopic realms of sub-atomic particles. The quantum processes that we experience are therefore largely the product of our higher energy bodies, rather than the low energy biomolecular body.

Nevertheless, the biomolecular body does contain some measure of quantum activity—for example, the retina is constantly being bombarded with photons. The measurement of photonic activity in the retina by the brain involves an activity with quantum objects (the photons). Weird quantum behavior in the biomolecular body is therefore generally limited. One of the criticisms of the idea of quantum consciousness within our biomolecular brain that was put forward by Roger Penrose, Stuart Hameroff and others is that microtubules (in which quantum consciousness is said to be generated) are found in every cell in the body—including our toes. If that is so, why is consciousness only associated with the biomolecular brain? Many attempts have been made to investigate quantum processes in microtubules in cells.¹

The problem of entanglement and decoherence in a 'classical world' like ours is enormous. However, in semi-classical and near-quantum worlds—in which the higher energy bodies reside, quantum behavior is often encountered. Classical behavior in such quantum-like universes would seem to be 'weird' just as quantum behavior in our classical universe is seen to be 'weird.' The place to look for quantum activities within our bodies is therefore in our higher energy magma bodies. In an interview with Jeffrey Mishlove, Karl Pribram said that quantum-like phenomena or

the rules of quantum mechanics apply all the way through to our psychological processes. To that extent, he said, 'We have an explanation, or perhaps a parallel, to the kind of experiences that people have called spiritual experiences.'²

Many meditation techniques increase quantum coherence in higher energy bodies. For example, a mantra said attentively or a prayer repeated in a 'rosary,' may cause Q-balls to fall in-phase and fuse in the (immediately) higher energy magma bodies. In this case, a classical behavior (repeating mantras) may induce quantum behavior. The effects of such mental manipulations can have physical effects on all bodies, including the biomolecular body.

Synchrony of Neuronal Firings

Johnjoe McFadden says that there is abundant evidence from EEG and MEG studies that synchronous firing in different regions of the cortex (to generate an EEG wave) correlates with awareness and attention.³ Many meditative techniques enhance the synchrony of neural firings in the biomolecular body. In fact, pulsed waves of neural firings can be observed occurring during meditation, according to Judith Hooper and Dick Teresi.⁴ The characteristic brain waves (alpha, beta, theta and delta) vary with a subject's alertness and are the result of synchronous firing of many thousands of neurons from different regions of the brain's cerebral cortex. The firing of individual neurons cannot be generating them as the signal from any single neuron would be far too weak to be detected. Meditators who claim to heightened and 'expanded' awareness may now have scientific support. If awareness is enhanced by synchrony of neuronal firings and disrupted by a lack of synchrony, techniques to improve synchrony must necessarily 'expand' consciousness. Can prolonged exercises to improve synchrony affect other bodies?

Synchronisation of Magma Body's Frequencies

Leadbeater reports that although an average frequency can be made out for each super magma body, various regions of the super magma bodies can pulsate at difference frequencies.

According to him, a 'more developed man' has five rates of vibration within the astral body. The case of the majority of people, however, is far worse. In the astral bodies of many people, he says, one might easily observe a 'fragmented' magma body with fifty rates or more. According to him, the (astral) body should be divided into a few fairly definite areas; each pulsating steadily at its normal rate, but instead, for many cases he has seen, its surface is usually broken up into a multiplicity of little whirlpools and cross-

currents, all battling one against the other in mad confusion.⁵

The crystalline (mental) and liquid (emotional) states of the various super magma bodies are mapped onto various parts of the physical-bio-molecular (or biochemical) brain. Synchronous neural firings in the brain induce the rates of vibrations in higher energy bodies to be increasingly synchronised. Through meditative exercises, the different regions of our super magma bodies can be made to beat or pulsate in synchrony. The bodies become less fragmented and more coherent—more like a laser than an ordinary light bulb.

Effects of Advanced Meditation on Magma Bodies

Meditation and MHD (Magneto-Hydrodynamics)

With more revolutions of charged particles around the meridians per hour, magnetic fields become stronger; giving higher energy bodies a more definite shape since these fields serve to confine the plasma. It will obviously give better control over the movement of particles which generate and sustain the various emotional and mental states. One of the practical goals of Qigong and Yoga masters is to increase the strength of the magnetic fields by increasing the speed and therefore the frequency of circulations of prana around the established circuits in the various super magma bodies. Maybe, this is what gives rise to a 'magnetic personality.'

It is quite common in sitting meditation to join hands—this effectively connects the poles of the relevant magnetic field, creating a circuit in the super magma body for qi or prana to flow (as Birkeland currents). In Reiki and Christian 'Praise and Worship' sessions, it is quite common for a number of practitioners to join hands creating a larger circuit through which qi or prana can flow—effectively generating a Birkeland current which flows through the practitioners' super magma bodies. Practitioners feel heat and a flow in their bodies which has an electrical feel.

Electric Shocks during Meditation

Electric shocks during meditation offer more evidence of invisible electromagnetic super magma bodies that are coupled with our biomolecular body. Plasma tends to separate into regions according to temperature, density, magnetic field strength, particle types and other physical properties. Whenever these regions are in relative motion, they generate electrical currents. Scientists say that plasma in relative motion in one part of the universe can produce prodigious amounts of electrical energy which may be transferred over many billions of light years to burst suddenly from a very small and localised region representing the 'circuit load.' The same phenomenon can occur within our super magma bodies—particularly in a less coherent

and more fragmented body where different regions of the magma body in relative motion are pulsating at different rates—resulting in what is known as ‘spontaneous human combustion.’ In many recorded and photographed cases of spontaneous human combustion, parts of the ordinarily visible biomolecular bodies are vaporised by an influx of energy. The energies of our super magma bodies far exceed anything the biomolecular body can withstand.

Plasma metaphysics observes that the centre of the magma body (coinciding somewhat with the lower abdomen of the physical-biomolecular body) contains a pool of the highest density charged magnetic plasma (originating from the fiery core of the Earth). (This is normally identified as ‘kundalini’ or ‘Earth qi’ in the metaphysical literature.) It is separated from a pool of lower density magnetic plasma of an opposite polarity near the head (this plasma can be identified loosely with ‘prana’ and ‘Heaven qi’ which mainly originates from the Sun). Hence, the torso of the magma body, which contains these two pools of oppositely charged particles in a colloidal medium at its ends, operates as a capacitor. The charges from currents within the magma body can build-up in this capacitor in a fragmented lower physical-etheric body. When a certain threshold is reached an electrical discharge, lasting only a split-second, occurs in the magma body. This can impact the physical-biomolecular body, causing it to suddenly combust or experience a sudden surge of electromagnetic energy or heat.

Scientists currently have no credible theory on why these well-documented cases occur. When this happens during meditation it can pose a significant danger to meditators who cannot or are not trained to control the surge in electromagnetic and heat energy. Uncontrolled surges of electromagnetic energy can damage the cells of the biomolecular body. If it is close to any vital organ such as the heart, it can cause death. If it is near the brain, it can cause a breakdown of neural processes which may result in insanity. It can lead to spontaneous combustion in certain parts of the body.

It is important in these cases to interrupt or absorb any flows of charged particles (or currents) from the body. Hence, Yoga practitioners generally use insulators such as a wooden platform or animal skin to sit on. According to Annie Besant, ‘real Yoga’ is as dangerous to an impure and undisciplined body as a match to a cask of gunpowder.⁶ An undisciplined person whose magma body is fragmented into various electromagnetic domains with very different frequencies, faces a higher risk of damage or death caused by electrical or heat phenomena during meditation.

Your body must be able to withstand the high voltage of this energy. Some of the delicate sinews of your body may be damaged if the voltage is too high for you to bear.

Bhagwan Shree Rajneesh ⁷

According to Rajneesh, the use of wooden platforms for meditation had no other purposes than the fact that they were non-conductors. Deerskins and leopard skins were used for the same reason: so that energy that is released by meditation should not give a shock. 'A man can be killed by electric shock,' says Rajneesh. 'Therefore, the sadhak [or Yoga practitioner] puts on wooden sandals and slept on a wooden platform.'⁸

Heat during Meditation

Tibetan Buddhist monks practice 'tumo', a meditative practice, which generates large amounts of heat which enable them to sit in meditation through-out the night in snow-capped mountains without dying or suffering health problems. These feats have been documented and captured on video by Dr Herbert Benson. Benson, a cardiologist by training who authored the 1975 bestseller 'The Relaxation Response', the director of Harvard's Mind/Body Medical Institute and the lead scientist in a tumo experiment, journeyed to Tibet to study the practice of tumo in which Tibetan monks were able to take sheets dipped in frozen water, wrap them around their unclothed bodies, and then dry them by mentally raising their body temperature. Each monk, situated in a freezing environment, dried one sheet after another at times reaching twenty sheets at a single session. These feats were accurately measured and recorded and a documentary containing the scene was produced. It is another piece of evidence of a surge in an unknown energy during meditation. The super magma bodies of the monk, no doubt, radiated a large amount of heat energy to keep the biomolecular body warm.

Heat generation is in fact quite a common occurrence for most people who engage in meditation, prayer, Yoga or Qigong for long hours. Scientific experiments have also been conducted which show that the temperature of certain parts of the body can be raised or lowered simply by visualising an appropriate scene. For example, to raise the temperature one could visualise oneself next to a blazing fire. To lower the temperature one could visualise lying down in snow on a snow-capped mountain. It was noticed during these visualisations that the temperature at the fingertips were raised or lowered by several degrees during the experiments. Where does this energy which raises the temperature come from? The obvious answer would be the heat radiated from our super magma bodies.

The modern Catholic saint, Padre Pio, was known to have very high body temperatures even when he was not ill. 104 degrees is considered high and 119 would fry your brains—if it didn't kill you outright! However, according to Reverend John Schug, in his book on 'Padre Pio,' the saint's temperature is known to have risen to 125, which not only did not kill him, it didn't even make him delirious. Schug was actually present on one occasion when Padre Pio's temperature was so high it broke the thermometer. 'Ginsie Lewis' has an interesting theory about this:

If spontaneous human combustion, where a person suddenly starts on fire for no reason and burns up completely, bones and all, leaving behind a scorched spot on the chair he was sitting in, a pile of ashes, and maybe one shoe with his foot still in it, is actually a true thing, this abnormally high fever business [of Padre Pio] could be related to it.

'Ginsie Lewis'¹⁰

While she was rapt in prayer, the community saw Ven. Serafina Di Dio face glowing like a red flame and her eyes sparkled fire. 'It burned them if they but touched her.' She herself declared that she was consumed and shrivelled with heat; her blood was as molten lead in her veins.

Joan Carroll Cruz¹¹

Physical Enlightenment during Meditation

Cruz reports that there is a mountain of literature which records the luminous phenomenon which sometimes accompanies religious ecstasy. A saint's head may be aglow, a light might encompass the entire body, or rays either come toward or proceed from the body, she says. Sometimes called 'luminous effluvia,' it is recounted numerous times in the lives of saints and has been described and attested to by persons of unquestionable integrity. Pope Benedict XIV admits to the miraculous nature of lights and rays mentioned in the lives of saints by declaring, 'There are hundreds of such examples to be found in our hagiographical records.'¹²

Another well-known example of physical enlightenment is the 'transfiguration' of Jesus, as narrated in the New Testament (of the Christian Bible). These phenomena are the result of an increase in energy in the electromagnetic etheric double which occasionally manifests light nearer to the ordinarily visible electromagnetic spectrum.

Electromagnetic Force Fields that Shield

Qigong practitioners are taught regularly how to 'erect' a force field around their bodies by manipulating their 'breath.' A force field that covers the whole body is sometimes called a 'golden shroud' in the relevant literature. In fire-walking ceremonies, this field when created around the feet helps to prevent contact between the hot coals and biological tissues. During these events, the etheric double, fortified with increased energy, generates a strong electromagnetic field which shields the biomolecular body.

Superfluidity in Magma Bodies

People in hyperarousal states often feel as they are effortlessly channeling vast quantities of energy through their consciousness, resulting in the quintessential 'flow' experience.

Andrew Newberg and Eugene d' Aquili, Neuroscientists¹³

Superfluidity is a quantum phenomenon where fluids flow with no viscosity. In ideal magneto-hydrodynamics plasmas are treated as having zero resistivity, which is very similar to superconduction and superfluidity that arises in condensates. During prolonged advanced meditation, this analogous superfluidity in our higher energy bodies gives us the psychological and physical sensations of a 'flow.' The feeling of 'flowing' with the universe or the 'Tao' and the simultaneous upsurge of energy is a common feedback among practitioners who have practiced years of regular meditation. This suggests that meditators are experiencing the sensations of analogous superconduction and superfluidity in their higher energy magma bodies when they are experiencing this 'flow.'

Non-Conventional Absorption of Energy

Inedia is a non-conventional method of absorbing energy directly from the environment frequently during prayer and meditation. The etheric double absorbs energy during meditation when it becomes superconductive to solar qions. The energy is stored in the etheric body and can be transported to the biochemical body through the ('acupuncture') meridian system in the etheric double to sustain the life of the biomolecular body, making normal animal or plant food (i.e. third-party biochemical energy) redundant. This is a remarkable finding. It would mean that the biomolecular body can convert qi into biomass—in a process similar to photosynthesis in plants. Sufi mystic Muhyi'd Din Ibn' Arabi who lived in the thirteenth century recalls:

'It was impossible for me to eat, but I did not feel hunger! This contemplation took the place of all nourishment. My good appearances astonished my friends who knew of my total abstinence. The fact is that I continued for a long time without food, not experiencing either hunger or thirst...'¹⁴

San Giovanni Rotondo, an American priest who was at the Italian friary where the Catholic saint Padre Pio was residing, recollects that Padre Pio spoke at the dinner table about the time he was sick for eight days. He took nothing but a little water during the whole illness. Someone told him to weigh himself after he got up from the eight days fast. He had gained! ...Padre Pio laughed heartily and said... 'I think I'll have to eat more to reduce!'¹⁵

These 'inedic' saints are healthy despite not taking the normal amount of food. Medical science tells us that the shortage of vitamins and minerals can lead to serious illnesses. Yet these saints live long and healthy lives—and even maintain or put on weight (we are not talking about the lean and haggard type here). There is clearly an energy intake aside from food and water; an energy discrepancy if we go by what is known to mainstream Science. According to Patricia Treece, saints often evidence discrepancies between intake of food and rest and outgo of energy which cannot be explained except by the theory that they tap into another energy source that does for them what food and sleep do for us.¹⁶ Men (and women), literally, 'do not live on bread alone.'

Epilogue

The traditional 'Many Bodies-Many Universes' theory of metaphysics is enduring because it agrees with the evidence. Science in the past few centuries has been dominated by work in only a narrow range of the spectrum of manifest reality. As Leadbeater has pointed out—metaphysicists and physicists are like two groups of people working on opposite sides of a mountain to build a tunnel. At some point, the tunnels will meet and the path will be open for anyone who wants to travel it—anyone who wants to go beyond the narrow confines of unenlightened Science.

This century will change mindsets and may promise communications with the lowest frequency spheres and rings, interpenetrating the dense physical Earth. Just as Man ventured beyond the seas to chart the planet; landed on the Moon and is now planning trips to Mars; the day will come when travellers to parallel universes (our families and friends who have left their physical bodies permanently) will be contacted through electromagnetic means. The mind boggles to think of such a scenario.

This book has provided persuasive evidence that we do have bodies that are currently invisible to us and that Earth is more than just its dense physical form. Science will continue to throw up new evidence to support these findings in the coming decades. The metaphysics of today will become the enlightened Science of tomorrow.

The findings will impact every area of human life, from religious views to environmental and ethical issues; from our ideas of UFOs to our relationships with ghosts; from the nature of our own existence to the nature of this weird universe we call home. We will not be able to view our own history and scriptures in the same light. There will be disputes and new rationalizations to accommodate the old.

How do we view death now? If there is life after death, how do we view the

death penalty for criminals or euthanasia? And if indeed, we do find, like the inedic saints, that dark matter and energy can be absorbed and changed into biomass; will there be an end to hunger in the world? Would 'genetic' engineering be extended to the physical-etheric nucleus? Can karma be manipulated by electromagnetic means? Is there life in Mars? (Have we checked its astral counterpart?) Whatever the intellectual breakthroughs, now as in history, there is a need for ethics and a respect for the dignity of individuals; a need for laws and protection for the weak.

Nature has outdone Man in every conceivable way. Even our latest technology looks puny in the face of the vast multiverse—with universes in all directions and frequencies; and with intelligent life in all forms and scales. Our complicated machines, computers and vehicles would be redundant in another universe where space and time are fluid. From plasma to mobile communications technology; from holography to virtual realities; from memory storage in the fabric of spacetime to sub-atomic particle memory; from photonics and electronics to super-photonics and super-electronics—the list does not end. Nature beats us—hands down! The bravado that came with the birth of modern Science has to give way to an Einsteinian humility and awe; and a willingness to go beyond the confines of what can be seen and measured. A sign used to hang in Albert Einstein's office: 'Not everything that can be counted counts, and not everything that counts can be counted.'

Glossary

Aura: Radiation from magma bodies.

Birkeland Currents: Electric currents that flow along magnetic field lines, which act like wires guiding the current in circuits. Other similar terms: cosmic filaments, meridians and orbits (Chinese acupuncture), nadi (Hindu literature), channels (Tibetan Buddhism).

Chakras: Vortexes within magma bodies, caused by magneto-hydrodynamics. Other similar terms: Wheels (Tibetan Buddhism).

Dark Matter and Energy: Invisible matter, which scientists believe make-up 99% of our universe; and which interacts weakly with ordinary matter. Other similar terms: Subtle matter and energy.

Magma: Plasma with magnetic fields embedded in it i.e. 'magnetised or magnetic plasma.'

Magma Bodies: Bodies composed of magma. Other similar terms: Subtle, physical-etheric, astral, mental, spiritual and causal bodies.

Magmaspheres: Environments composed largely of magma.

Magmaverses: Universes composed largely of magma.

Magneto-hydrodynamics (or 'MHD' for short): A study of the dynamics of electrically conducting fluids, including plasmas and liquid metals.

Plasma Metaphysics: The application of plasma physics to the study of subtle magma bodies and their corresponding super universes.

Quantum Metaphysics: The study of the nature and behavior of conscious particles and quantum objects.

Zeeman Effect: The splitting of light into components with different frequencies, due to the presence of a magnetic field.

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