

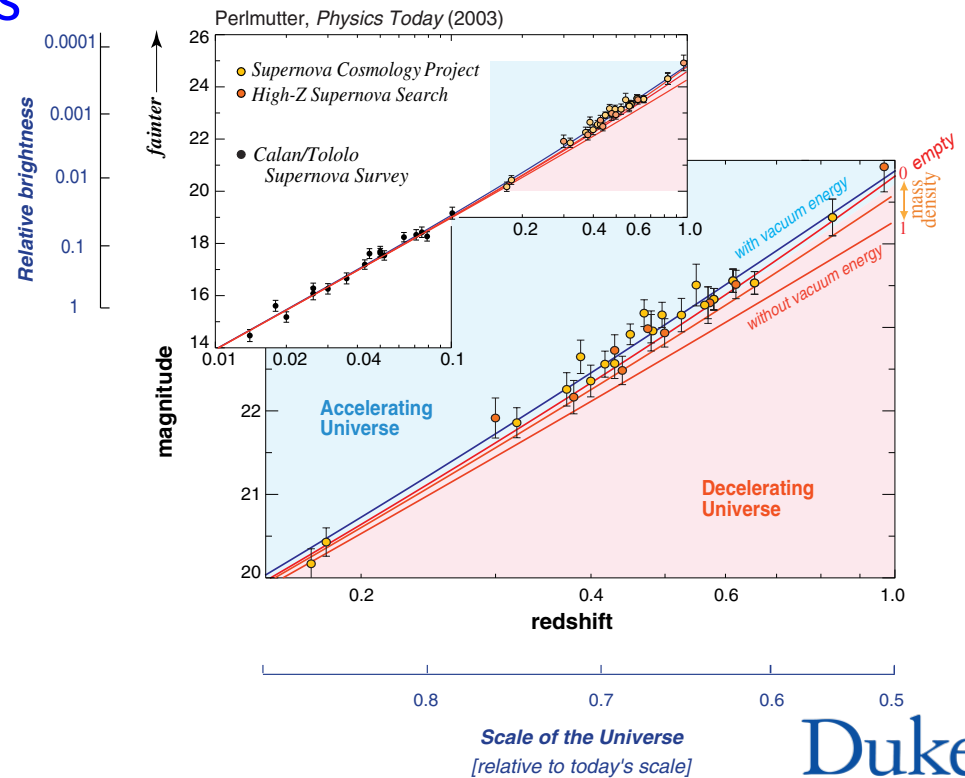
Introductory Astronomy

Week 8: Cosmology

Clip 9: Precision Cosmology II – SN1a

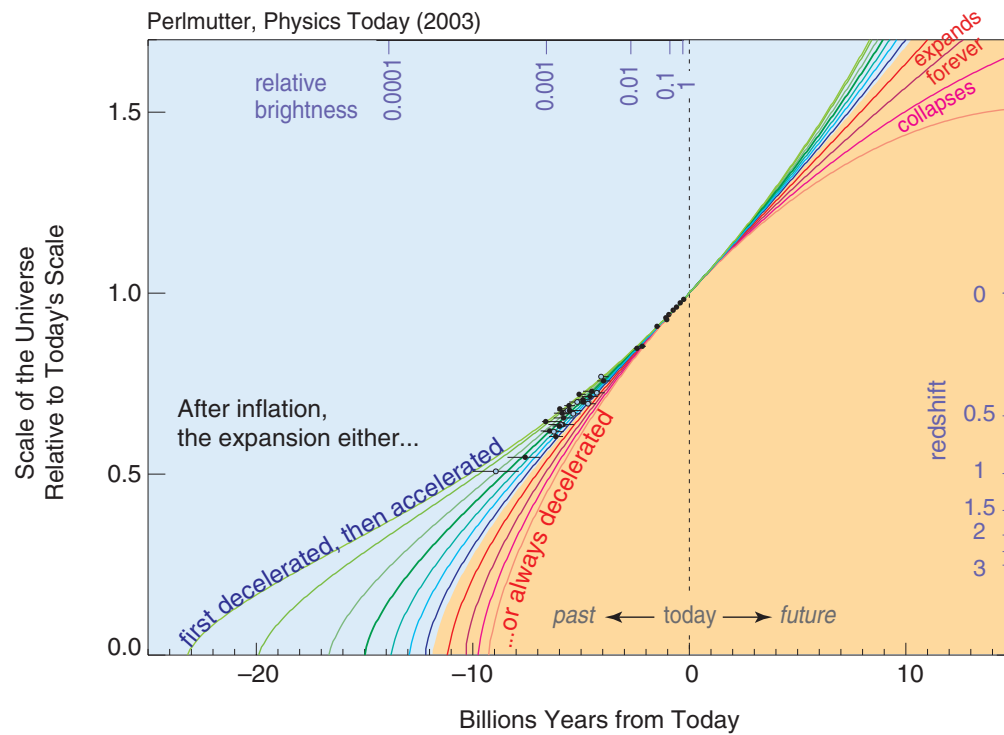
SN Ia As Cosmological Probes

- SN Ia are **standard candles**
- Can determine D_L
- Can **measure** z from absorption line spectrum
- Visible at large distance
- **Measure** correction to Hubble's Law - deceleration parameter



A Historical View

Expansion History of the Universe



Credits

- Type Ia Supernovae Graphics: From S. Perlmutter, Physics Today
<http://supernova.lbl.gov/>