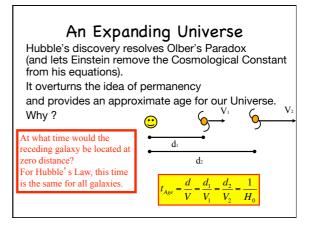


- An observer in any galaxy will see all other galaxies moving away from it, with the same Hubble law.
- Expansion (or contraction) produces a centre-less but dynamic Universe.





## The Hubble Constant

- The exact value of the Hubble Constant has been hotly debated since its discovery.
- Hubble measured  $H_0 = 500$  km/s/Mpc.
- Hubble mistook RR Lyraes for Cepheids in most of his galaxies. When corrected,  $H_0 = 100$  km/s/Mpc.
- For several decades measurements using different "standard candles" gave 50 to 100 km/s/Mpc.
- The Hubble Space Telescope (HST) was named after Hubble. Its primary goal was to measure *H*<sub>0</sub>.

