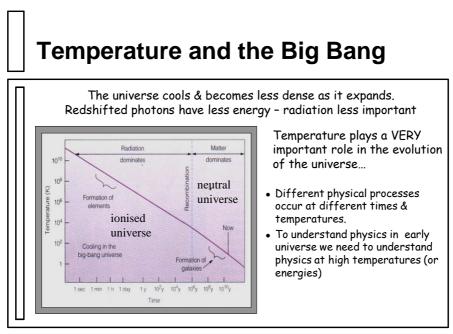
The first 400,000 years...

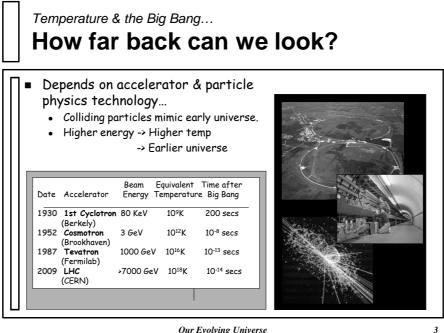
All about the Big Bang...

- Temperature
- Chronology of the Big Bang
- The Cosmic Microwave Background (CMB)
- The VERY early universe

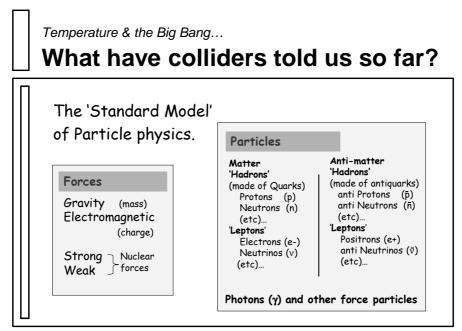


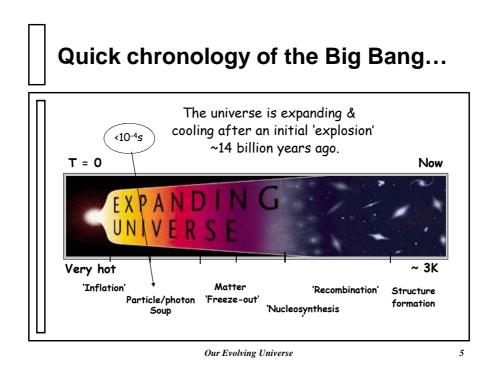
Our Evolving Universe

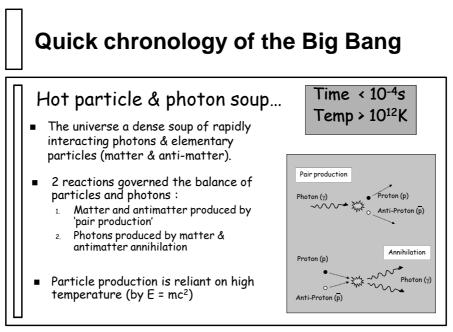


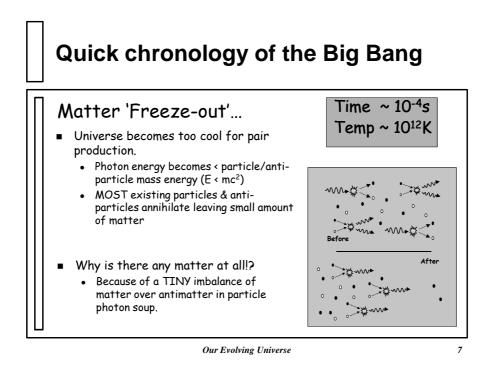


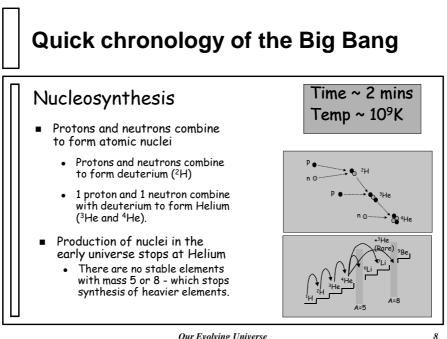
Our Evolving Universe

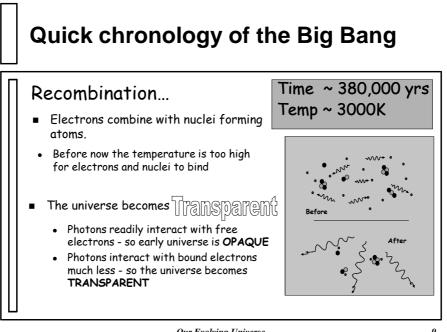


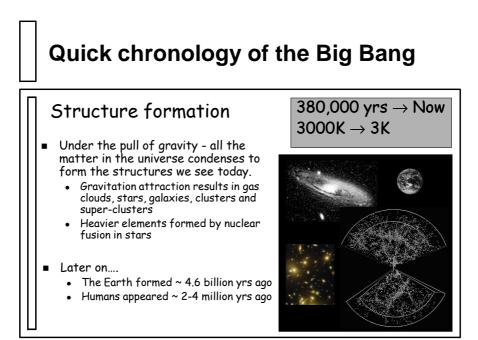


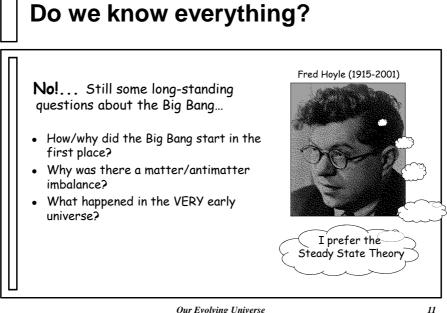




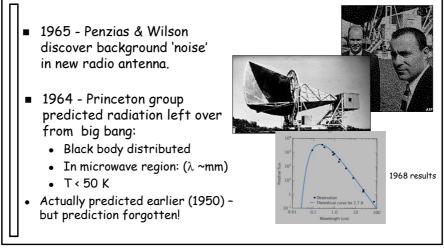


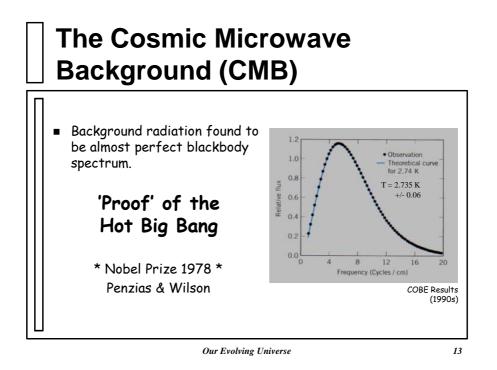


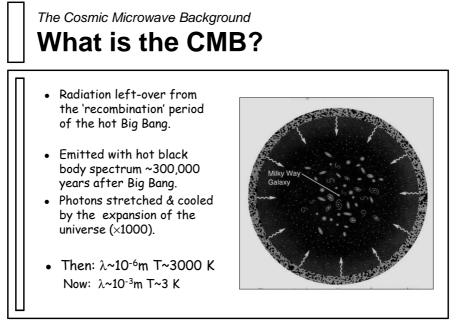




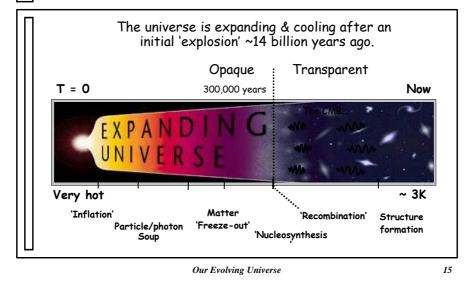
The Cosmic Microwave Background (CMB)







The Cosmic Microwave Background What is the CMB?



 The Cosmic Microwave Background

 Mapping the CMB sky

 • Cosmic Background Explorer
satellite (COBE) launched 1989

 • All sky 'temperature' map

 • The Cosmic Background Explorer
satellite (COBE) launched 1989

 • All sky 'temperature' map

 • CMB is mostly VERY UNIFORM
(smoother than 1 in 100,000)
T = 2.728 Kelvin

