


The Birth of Stars

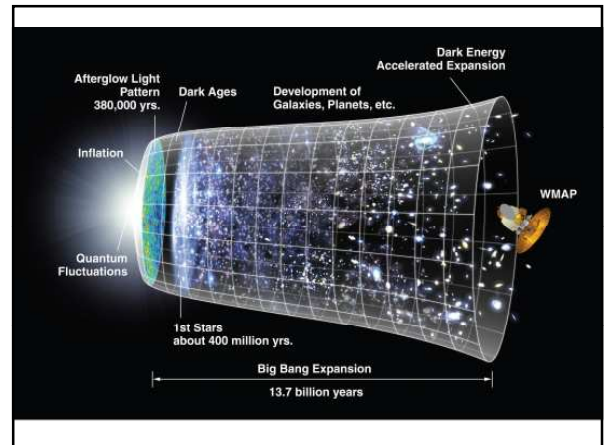
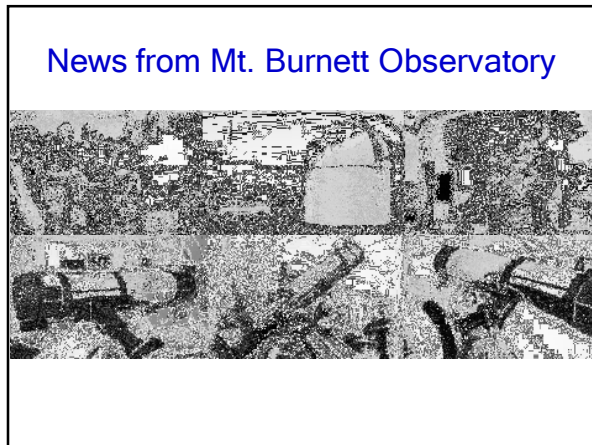


Dr. Daniel Price
Monash Research Fellow
Monash Centre for Astrophysics

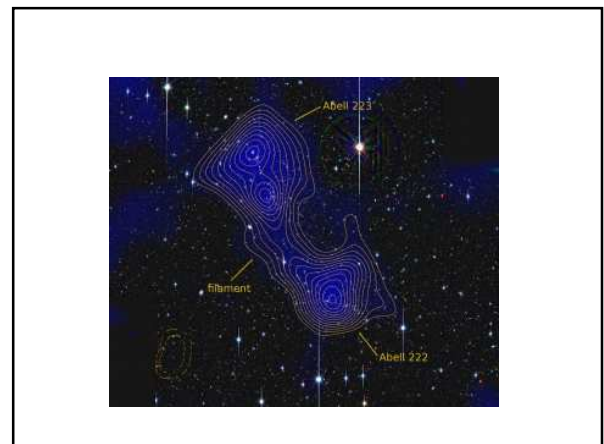
When: 6pm, Thursday 2 August, 2012

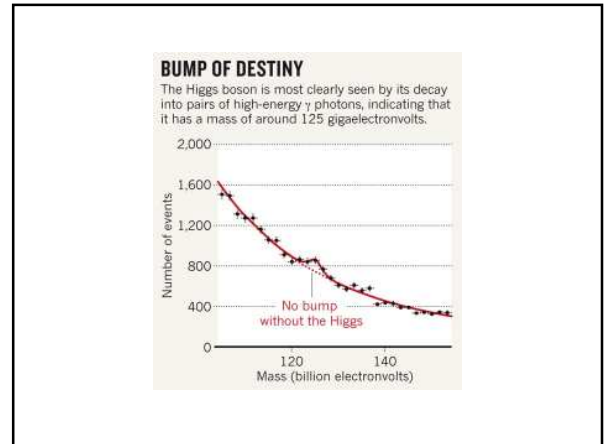
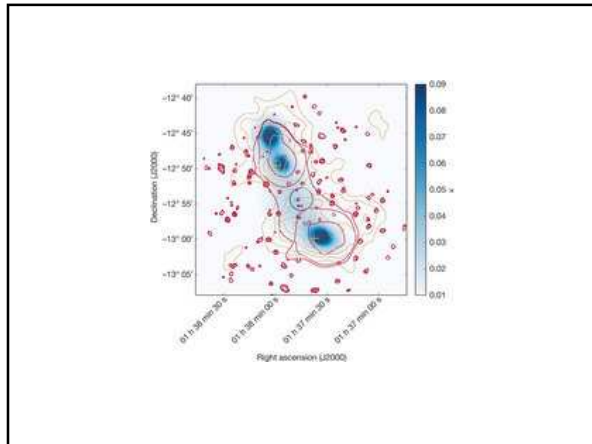
Where: Lecture theatre S3, Monash University, Clayton Campus

Contact: samantha.penny@monash.edu



- Two New Events Since we Last Met**
- 1) Evidence for Dark Matter "observed".
 - 2) The Higgs Boson was "discovered".



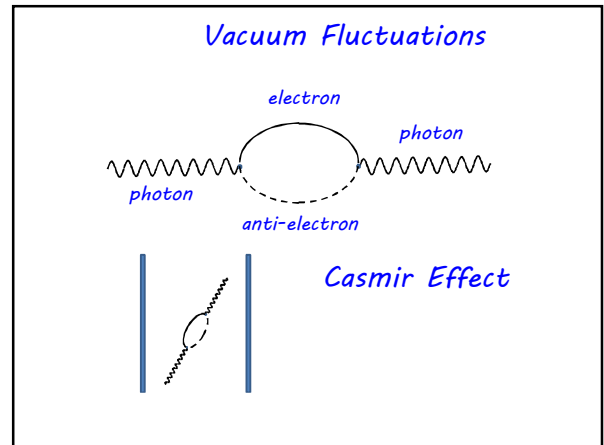


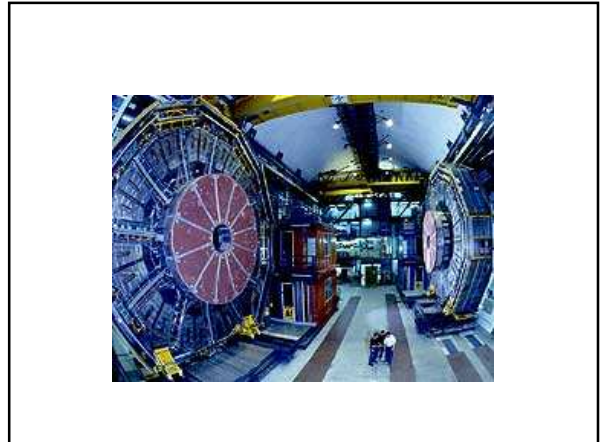
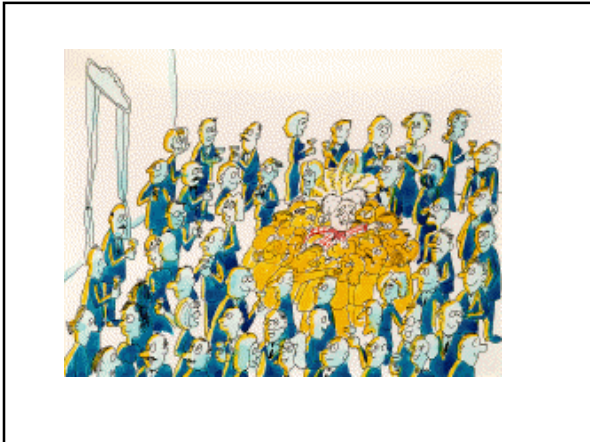
About the Vacuum

*Greek term for "absence of matter".
... We now use the term free space for this.*

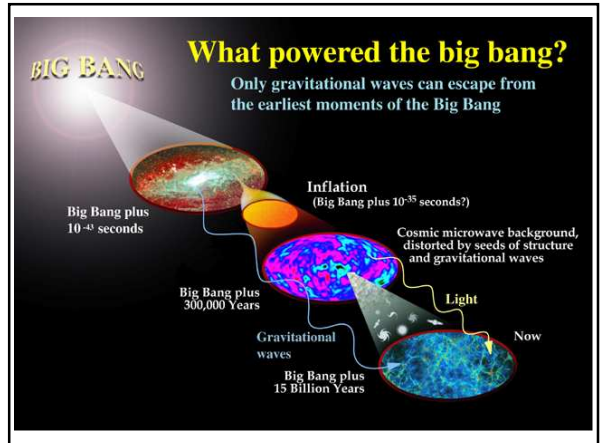
The vacuum has properties:

- Force constants*
- Speed of light*
- Fluctuations*
- Higg's particle ??*





The universe is "a poor man's accelerator" (Yakov Zel'dovich).



Laser Interferometer Space Antenna
LISA

Low frequency gravitational waves primarily from colliding black holes and galaxies

Launch date: 2025
Total Cost: 2.4 B (US will pay 1.5 B)
US 852 B in 2012 - 2021

ESA is responsible demonstrating the technology in LISA Pathfinder

