ASTR 160 - Frontiers and Controversies in Astrophysics

Update 3 – Do Black Holes Spin?

- 1. Dark Energy vs. Dark Matter in the Universe. Image credit: Spectra and HST Light Curves of Six Type Ia Supernovae at 0.511 < z < 1.12 and the Union2 Compilation R. Amanullah, et al., The Astrophysical Journal, 2010.
- 4. 2011 Nobel Prize for Physics: Saul Perlmutter. Image credit: Lawrence Berkeley National Lab.

Brian P. Schmidt. Image credit: Belinda Pratten, Australian National University.

Adam G. Reiss. Image credit: Scanpix/AFP

5. Cosmic Microwave Background (CMB). Image credit: Smoot Group Astrophysics and Cosmology, http://aether.lbl.gov/www/projects/cobe/COBE Home/DMR Images.html (Accessed June 2012)

Distribution of Galaxies (2DF survey). Image credit: Universe Today, http://www.universetoday.com/85530/examining-the-great-wall/ (Accessed June 2012)

- 11. James Webb Space Telescope. Image Credit: NASA, http://www.nasa.gov (Accessed June 2012)
- 13. Wide Field Infra-Red Space Telescope (WFIRST). Image Credit: NASA, , http://www.nasa.gov (Accessed June 2012)

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