

Astro 25 week 12b: Useful resources/Homework #14

Internet readings

Dark energy

http://en.wikipedia.org/wiki/Dark_energy

Smooth Tension and acceleration

<http://teachingcompany.12.forumer.com/viewtopic.php?t=513>

Vacuum energy

<http://teachingcompany.12.forumer.com/viewtopic.php?t=512&sid=d044a7cd75576deca7a3109f1b223ab5>

Quintessence

<http://teachingcompany.12.forumer.com/viewtopic.php?t=511>

The Cosmological Constant

<http://relativity.livingreviews.org/Articles/lrr-2001-1/>

Video

Sean Carroll discusses the dark sector

http://www.youtube.com/watch?v=cxFfUsDgnaU&list=PLPIYPyWdOTSmHhj4PQ5ET6ENy-XW_5U9b

Homework #14 (5 pts):

Write a short essay (300+ words) summarizing our knowledge of dark energy. Incorporate, where appropriate, definitions/explanations of all the following key words. Provide at least two references you used in your work.

Dark sector

Dark energy smoothness

Flatness problem

Vacuum energy

Accelerating universe

Dark energy persistence

Concordance cosmology

Cosmological constant

Quintessence