

ISP 205
Review Questions, Week 15

This is not required homework. It will not be graded. Answers will be supplied on Tuesday.

1. What force tries to slow down the rate of expansion of the universe?
2. How do we know that the rate of expansion of the universe is speeding up (accelerating)?
3. What causes the acceleration?
4. What fraction of the total content of the universe is in the form of Dark Energy?
5. What fraction of the total content of the universe is in the form of Dark Matter? Of all kinds of matter put together?
6. How do we know that the universe has a “flat” geometry?
7. What are the three problems that occur if we just try to extrapolate the nature of today’s universe back to the earliest times?
8. What do we mean by inflation?
9. How does inflation solve the three problems referred to in question (7)?
10. What will happen to the universe in the long-term future?