

Weekly main assignment for week 3 (12/02/16) AST3220

Prepare for class (to be discussed in plenary)

We will do exercises 1.4 and 1.5 in the lecture notes. If you have not seen all the theory on Friedmann equations by that time, probably you will, sketch what you think would be the proper step-by-step solution for these exercises.

Think about this:

- Why is the density in 1.4 c) called critical density ? What that implies in this exercise and in our universe?
- Do exercise 1.10: The last equation is similar to the FLRW line element, but what are the peculiarities and differences?

Bonus problems from universeinproblems.com

INTERESTING ONES !

Problems 1 to 8, 10 and 19 in the section *Friedmann-Lemaitre-Robertson-Walker (FLRW) metric*