

# 1 Weekly assignment for week 11 AST3220

## Mandatory hand-in-assignment

Your solution to either one (or several if you want) of the exercises 2.8, 2.9 or 2.10 in the lecture notes.

The important point of this assignment is for you to gauge your knowledge. Therefore we strongly recommend that you compile your own independent solution rather than copy an exam solution from the web or the solution of another student. Pretty much any attempt at a solution handed in on time will be accepted.

The assignment can be handed in either electronically by email to `marit.sandstad@astro.uio.no`, by handing in in class or by leaving your solution in Marit's postal shelf on the ground floor of the astrophysics building (shelf marked SANDSTAD). Either way you choose, the assignment should be handed in by 14:30 on the 19th of April.

## Prepare for class (to be discussed in plenary)

Explain in brief the following concepts:

- a) Big bang nucleosynthesis (BBN)
- b) Recombination
- c) Deuterium bottle neck
- d) Freeze out
- e) Helium abundance
- f) Isotope
- g) Binding energy

## Prepare or at least look at before class

Exercises 2.7, 2.8, 2.9 and 2.10 in the lecture notes.