



LECTURE COURSE IN THE QUANTUM UNIVERSE RESEARCH SCHOOL

Winter Term 2019/2020

Chemical Evolution of the Universe

J. Liske

Course Description:

Contents:

- Background cosmology
- Nuclear physics fundamentals
- Primordial nucleosynthesis
- Recombination
- Stellar evolution and nucleosynthesis
- Neutron capture processes
- Galactic chemical evolution
 - Ingredients
 - Simple models
 - Complex models

Prerequisites:

None.

Literature:

- B. Pagel, *Nucleosynthesis and Chemical Evolution of Galaxies*, CUP (2009)
- F. Matteucci, *Chemical Evolution of Galaxies*, Springer (2012)

Date and Place: Mon, 12:15–13:45, Bibliothek INF, Jungiusstr. 11

Problem Classes: Mon, 14:00–15:30, Bibliothek INF, Jungiusstr. 11

Starting on: 14 October 2019
