



Universität Hamburg

DER FORSCHUNG | DER LEHRE | DER BILDUNG

CHAMPP

CENTER IN HAMBURG FOR
ASTRO-, MATHEMATICAL AND
PARTICLE PHYSICS

LECTURE COURSE IN THE QUANTUM UNIVERSE RESEARCH SCHOOL

Summer Term 2024

Chemical Evolution of the Universe

Jochen Liske

Course Description:

Which physical processes have shaped the abundances of all of the elements in the Universe? What drives the evolution of these abundances? This advanced M.Sc. lecture course will comprehensively cover this topic from both an observational and theoretical perspective. We will explore the background cosmology, primordial nucleosynthesis, stellar structure, nucleosynthesis and evolution, neutron capture processes and the basics of galactic chemical evolution models. While not strictly required, it is definitely helpful to be aware of the contents of both parts of the B.Sc. introductory astronomy course. The course language is English.

Date and Place:	Thu, 14:15–15:45, SR 3114, Bahrenfeld
Problem Classes:	Thu, 16:00–17:30, SR 3114, Bahrenfeld
Starting on:	4 April 2024
