



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

Winter Term 2024/2025

Introduction to High-Energy Astrophysics

Stephan Rosswog

Course Description:

High-energy astrophysics comprises a broad range of phenomena the explanation of which covers a broad range of physical processes. Students will learn about model-building, about order of magnitude estimates (which are also very useful tools outside of astrophysics and an ability often sought for by consulting companies) and they will learn how to integrate “small scale physics problem solving” into the bigger astronomical picture.

Prerequisites:

Mandatory: Theoretical Physics I-III

Recommended: General Relativity, Astrophysical Gasdynamics

Literature:

Introduction to High-Energy Astrophysics , Rosswog & Brueggen, Cambridge University Press, 2007

Date and Place:	Tue, 10:00–13:00, 052, Building 69 Bahrendfeld
Problem Classes:	Thu, 14:00–15:00, 052, Building 69 Bahrendfeld
Starting on:	15 October 2024
