



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

Quantum Mechanics II

Jan Louis

Course Description:

- Scattering theory
- Symmetries and group theory in quantum theory
- Relativistic field equations
- Quantization of (non-) relativistic systems with an infinite number of degrees of freedom

Prerequisites:

Lecture course Quantum Mechanics I

Literature:

- S. Weinberg, Quantum Mechanics, Cambridge University Press, 2015
- F. Schwabl, Quantenmechanik für Fortgeschrittene, Springer, 2008.
(A more extensive list of references will be given in the course.)

Date and Place: Tue, 11:00 - 12:30, Hörsaal, Building 61, Bahrenfeld
Thu, 10:45 - 12:15, Hörsaal, Building 61, Bahrenfeld

Problem Classes: Thu, 12:30 - 14:00 / 14:15 - 15:45, 1076, Notkestraße 9

Starting on: 15 October 2024
