

**ESI SENIOR RESEARCH FELLOW
LECTURE COURSE
Summer Term 2019**

The Erwin Schrödinger International Institute for Mathematics and Physics (ESI) of the University of Vienna offers the following Lecture Course held by a Senior Research Fellow in residence during the Summer Term 2019:

Quantum Theory II

Andreas Buchleitner (University of Freiburg)

Lecture Course (442635 VO): March 26 to April 9, 2019

Time: 11:00 - 12:30

Start: Tuesday, March 26, 2019

Further Dates: Thursday, March 28, 2019

Tuesday, April 2, 2019 (11:00 - 13:45), Wednesday, April 3, 2019, Thursday, April 4, 2019 (11:00 - 13:30)

Tuesday, April 9, 2019

End: Tuesday, April 9, 2019

Venue: ESI, Schrödinger Lecture Hall

Abstract: The lecture will dwell on selected topics in advanced quantum mechanics, targeting students on the M.Sc. or early PhD level. While organised around "classic" subjects like perturbation, scattering and angular momentum theory, also examples from current research will be blended in.

Content of the course:

Perturbation theory

Scattering theory

Angular momentum Theory

Systems of identical particles

Entanglement theory

Aims for the course:

A deeper understanding of quantum theory.

Course website: <https://www.esi.ac.at/activities/events/2019/srf-course-andreas-buchleitner-ss19>

Christoph Dellago

Director