

2ISSAQM-2021

2nd International Summer School on Advanced Quantum Mechanics

from quantum chaos to supersymmetry

Prague, September 2-11, 2021



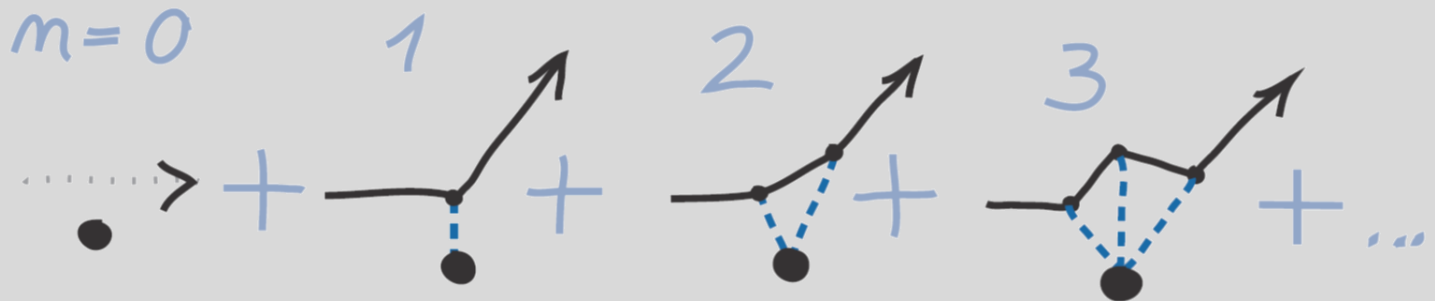
The main courses:

- **Lea Santos** (Yeshiva University, New York)
Indicators of many-body quantum chaos and time scales for equilibration
- **Pavel Exner** (Doppler Institute & Czech Academy of Sciences, Prague)
Constrained quantum dynamics
- **Arie Landau** (Technion - Israel Institute of Technology, Haifa)
Wave-function methods for molecular electronic structures
- **Rikard von Unge** (Masaryk University, Brno)
A gentle introduction to Supersymmetry
- **Ondřej Hulík** (Vrije Universiteit, Brussel & Czech Academy of Sciences, Prague)
Extended operators and defects in quantum field theory
- **Milan Šindelka** (Czech Academy of Sciences, Prague)
An introduction to renormalization in atomic physics

The School is suitable for MSc and PhD students of physics or for junior physics researchers. Each course will require only basic (MSc level) prior knowledge of quantum mechanics. Depending on the interest of participants, the School can be individually extended by computational projects.

Due to gradually improving covid-19 pandemic situation, the School will take place in a hybrid format, in which some lecturers and participants are present in the classroom while some are connected online, according to their personal preferences.

The registration fee options: 0 (only the online participation), 50 € (the on-site participation), 150 € (the on-site participation including lunches and a social dinner)
Accommodation arranged individually by the participants (we can help), for students we can find cheap rooms in student dormitories



Applications: <https://indico.ipp.cas.cz/event/20/registrations/14/>

Organizing committee:

Milan Šindelka and Miroslav Krůs (Institute of Plasma Physics, Czech Academy of Sciences, Prague), and Pavel Cejnar (Faculty of Mathematics and Physics, Charles University, Prague)

Contacts: sindelka@ipp.cas.cz krus@ipp.cas.cz cejnar@ipnp.mff.cuni.cz