



# Workshop on Modern Trends in Quantum Theory

## Monday, 23 May 2022

### **Talk: Tamás Kiss - Lecture hall 103 (09:30 - 10:30)**

-Conveners: Pavel Exner

time	[id] title	presenter
09:30	[28] Iterated nonlinear quantum protocols: theory and practice	Prof. KISS, Tamás

### **Talk: Horia Cornean - Lecture hall 103 (11:00 - 12:00)**

-Conveners: Igor Jex

time	[id] title	presenter
11:00	[15] Generalized bulk-edge correspondance at positive temperature	Prof. CORNEAN, Horia

### **Talk: Saverio Pascazio - Lecture hall 103 (14:00 - 15:00)**

-Conveners: Jaroslav Novotný

time	[id] title	presenter
14:00	[23] Dimensional Reduction of Gauge Theories and Quantum Simulations	Prof. PASCAZIO, Saverio

### **Talk: Alain Joye - Lecture hall 103 (15:30 - 16:30)**

-Conveners: Jaroslav Novotný

time	[id] title	presenter
15:30	[12] Fermionic walkers driven out of equilibrium	Prof. JOYE, Alain

## Tuesday, 24 May 2022

### **Talk: Paolo Facchi - Lecture hall 103 (09:30 - 10:30)**

-Conveners: Iskender Yalcinkaya

time	[id] title	presenter
09:30	[24] KAM stability of quantum symmetries	FACCHI, Paolo

### **Talk: Konstatin Pankrashkin - Lecture hall 103 (11:00 - 12:00)**

-Conveners: Iskender Yalcinkaya

time	[id] title	presenter
11:00	[10] Geometric realizations of boundaries of infinite trees	Prof. PANKRASHKIN , Konstantin

### **Talk: Gernot Alber - Lecture hall 103 (14:00 - 15:00)**

-Conveners: Václav Potoček

time	[id] title	presenter
14:00	[2] Quantum state preparation and dynamical symmetries: Coherent laser-induced preparation of multipartite W- and GHZ-quantum states and their interconversion.	Prof. ALBER, Gernot

### **Talk: Gregory Berkolaiko - Lecture hall 103 (15:30 - 16:30)**

-Conveners: Václav Potoček

time	[id] title	presenter
15:30	[13] Towards Morse theory of dispersion relations	Prof. BERKOLAIKO, Gregory

## Wednesday, 25 May 2022

### **Talk: Uzy Smilansky - Lecture hall 103 (09:30 - 10:30)**

-Conveners: Craig Hamilton

time	[id] title	presenter
09:30	[14] Can one hear a real symmetric matrix?	Prof. SMILANSKY, Uzy

### **Talk: Steve Barnett - Lecture hall 103 (11:00 - 12:00)**

-Conveners: Craig Hamilton

time	[id] title	presenter
11:00	[7] Aspects of time in quantum mechanics	Prof. BARNETT, Stephen M.

### **Talk: Rafael Benguria - Lecture hall 103 (14:00 - 15:00)**

-Conveners: Shivani Singh

time	[id] title	presenter
14:00	[9] On the excess charge for bosonic atomic systems	Prof. BENGURIA, Rafael

## Thursday, 26 May 2022

### **Talk: Zdeněk Hradil - Lecture hall 103 (09:30 - 10:30)**

-Conveners: Orsolya Kálmán

time	[id] title	presenter
09:30	[21] Angle and angular momentum -- new twist for an old pair	Prof. HRADIL, Zdeněk

### **Talk: Raffaele Carlone - Lecture hall 103 (11:00 - 12:00)**

-Conveners: Orsolya Kálmán

time	[id] title	presenter
11:00	[5] A Ionization Model	Dr CARLONE, Raffaele

### **Talk: Janos Bergou - Lecture hall 103 (14:00 - 15:00)**

-Conveners: Aurél Gábris

time	[id] title	presenter
14:00	[8] 100 years of complementarity	Prof. BERGOU, János A.

### **Talk: Mario Ziman - Lecture hall 103 (15:30 - 16:30)**

-Conveners: Aurél Gábris

time	[id] title	presenter
15:30	[18] Divisibility of quantum processes and stroboscopic simulations of quantum dynamics	Prof. ZIMAN, Mário

## Friday, 27 May 2022

### **Talk: Wolfgang Schleich - Lecture hall 103 (09:30 - 10:30)**

-Conveners: Zdenek Hradil

time	[id] title	presenter
09:30	[19] The Riemann Zeta Function and Quantum Mechanics	Prof. SCHLEICH, Wolfgang P.

### **Talk: Leszek Sirko - Lecture hall 103 (11:00 - 12:00)**

-Conveners: Zdenek Hradil

time	[id] title	presenter
11:00	[4] Application of quantum and microwave graphs in investigations of spectral invariants and non-Weyl systems	Prof. SIRKO, Leszek

### **Talk: Christine Silberhorn - Lecture hall 103 (14:00 - 15:00)**

-Conveners: Igor Jex

time	[id] title	presenter
14:00	[33] Quantum optics and information science in multi-dimensional photonics networks	Prof. SILBERHORN, Christine