

Session Program

11-15 Jul 2022

**10TH International workshop on quantum
phase transitions in nuclei and many-body
systems**

Excited-state quantum phase transitions

Dubrovnik, Croatia
Inter-University Centre, Don Frana Bulića 4

Friday 15 July

09:00

Excited-state quantum phase transitions

Session | **Location:** IUC, Don Frana Bulića 4, Dubrovnik | **Conveners:** Pavel Stransky, Pavel Cejnar

09:00–09:30

Introduction to the physics of ESQPTs

Speaker

Pavel Cejnar

09:30–10:00

Analogues of QPTs and ESQPTs in a dissipative spin model

Speaker

Jorge Dukelsky

10:00–10:30

Constant of motion identifying excited-state quantum phases and some applications to quantum optical models

Speaker

Armando Relaño

10:30–11:00

Theory of dynamical phase transitions driven by excited-state quantum phase transitions

Speaker

Ángel L. Corps

11:00

11:30

Excited-state quantum phase transitions

Session | **Location:** IUC, Don Frana Bulića 4, Dubrovnik | **Conveners:** Pavel Cejnar, Pavel Stransky

11:30–12:00

Stabilization of quantum states at ESQPTs

Speaker

Pavel Stránský

12:00–12:30

Pairwise kissing of excited states in a squeezed Kerr-oscillator

Speaker

Rodrigo Cortinas

12:30–13:20

Detection of excited state quantum phase transition with a Kerr-nonlinear resonator

Speakers

Curro Perez-Bernal, Lea Santos

13:30