Session Program

Jul 11 – 15, 2022

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

Novel aspects and signatures of QPTs in nuclei

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

Thu, July 14

9:00 AM

Novel aspects and signatures of QPTs in nuclei

Session | **Location:** IUC, Don Frana Bulića 4, Dubrovnik | **Conveners:** Andrea Vitturi, Lorenzo Fortunato

9:00 – 9:03 AM **Introduction**

Speaker
Lorenzo Fortunato

9:03 – 9:23 AM
Probing nucleon-nucleon correlations in heavy ion transfer reactions

Speaker
Suzana Szilner

9:23 – 9:43 AM
Shape phase transitions and shape coexistence through two-neutron transfer

Speaker
José Antonio Lay Valera

9:43 – 10:03 AM **Prolate to oblate transition within the proxy-SU(3) symmetry**

Speaker
Dennis Bonatsos

10:03 – 10:23 AM **Shape coexistence in Ni isotopic chain**

Speaker
Giovanna Benzoni

10:23 – 10:38 AM **Shape evolution across the N=Z line**

Speaker
Silvia Lenzi

11:00 AM

11:30 AM

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11:30 – 11:55 AM **Lipkin model on a quantum computer**

Speaker
Calvin Johnson

11:55 AM – 12:15 PM
Quantum simulation and quantum phase transitions of an extended Agassi model

Speaker
Pedro Pérez-Fernández

12:15 – 12:35 PM **The use of Artificial Neural Networks in Nuclear Structure Studies**

Speaker
Serkan Akkoyun

12:35 – 12:55 PM **Wobbling and chiral bands with non-axial quasiparticle alignments**

Speaker
Radu Budaca

12:55 – 1:15 PM **The microscopic origin of the Interacting Boson Model**

Speaker
Andriana Martinou

1:30 PM