

Session Program

11-15 Jul 2022

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

***Symmetries and quantum phase transitions
in nuclei***

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

Tuesday 12 July

15:00

Symmetries and quantum phase transitions in nuclei

Session | **Location:** IUC, Don Frana Bulića 4, Dubrovnik | **Conveners:** Jose Arias, Amiram Leviatan

15:00–15:25

What EDFs can tell us on PDSs in nuclei

Speaker

Amiram Leviatan

15:25–15:45

The nature of seniority symmetry breaking in the semi magic nucleus ^{94}Ru

Speaker

Biswarup Das

15:45–16:10

Unmixing symmetries

Speaker

Calvin Johnson

16:10–16:35

A quantum simulation of the Agassi model

Speaker

Jose-Enrique Garcia-Ramos,

16:45

17:15

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17:15–17:40

Nuclear radius, neutron skin and the mirror energy differences

Speaker

Silvia Monica Lenzi

17:40–18:05

The symmetry structure of octupole phonons in nuclei

Speaker

Piet Van Isacker

18:05–18:30

Exact analytical treatment of nuclear shape phase transitions in terms of the sextic oscillator

Speaker

Géza Lévai

18:30–18:55

Phase transitions, scale invariance and criticality in self organized systems

Speaker

Alejandro Frank

19:00