# **Session Program**

22 June 2025 to 3 July 2025

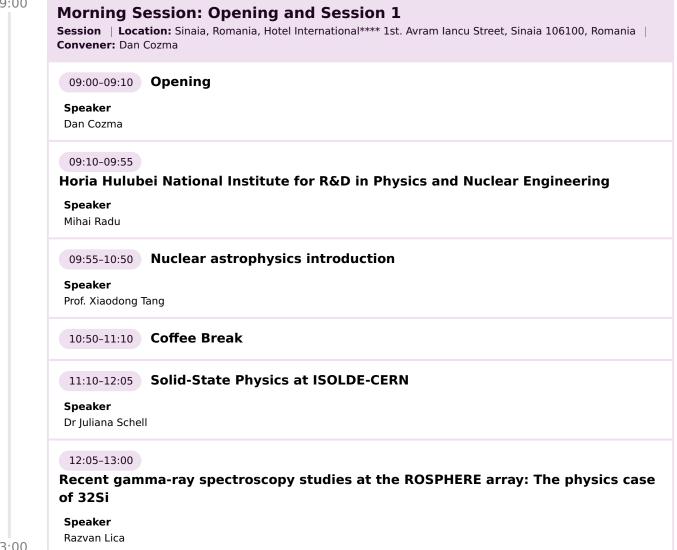


# Carpathian Summer School of Physics 2025 *Morning Session*

Sinaia, Romania Hotel International\*\*\*\* 1st. Avram lancu Street, Sinaia 106100, Romania

### Monday 23 June

09:00



### **Tuesday 24 June**

09:00

#### Morning Session: Small accelerators (I)

Session | Location: Sinaia, Romania, Hotel International\*\*\*\* 1st. Avram lancu Street, Sinaia 106100, Romania | Convener: Ion Burducea

09:00-09:55

Ion Beam Modification and Analysis in Contemporary Materials Research

Speaker

Dr Stefan Facsko

09:55-10:50

Advances in ionization-induced annealing of pre-exiting defects in semiconductors

Speaker

Gihan Velisa

10:50-11:10 Coffee break

11:10-12:05

Generation of Defects in Solids by Radiation, Their Role in Determining Material Properties, and Introduction to Experimental Techniques for Characterizing

Speaker

Joseph Graham

12:05-13:00

Gamma Spectroscopy of Natural Radionuclides: techniques and instrumentation

Speaker

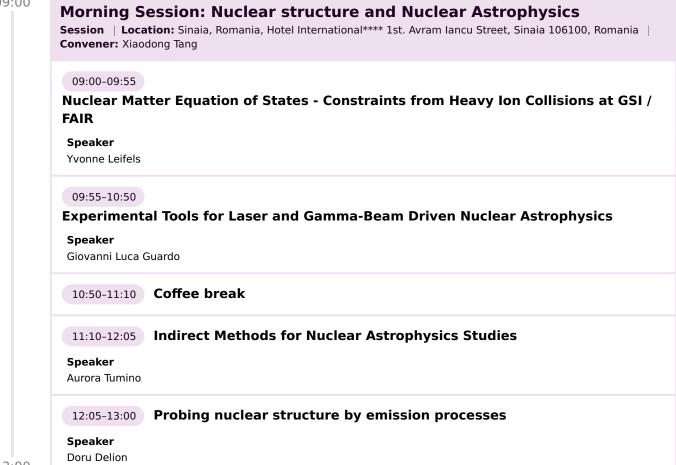
Yuri Venturini

### Wednesday 25 June

09:00 **Morning Session: Nuclear Structure** Session | Location: Sinaia, Romania, Hotel International\*\*\*\* 1st. Avram Iancu Street, Sinaia 106100, Romania | Convener: Catalin Borcea 09:00-09:55 Quadrupole-octupole dynamics in atomic nuclei Speaker Radu Budaca 09:55-10:50 Photoneutron reactions in the GDR region: cross sections and average neutron energies **Speaker** Ioana Gheorghe 10:50-11:10 Coffee break 11:10-12:05 From Virtual Photons to Nuclear Deformation: The Harsh Elegance of Coulomb **Excitation** Speaker Ștefana Călinescu 12:05

### **Thursday 26 June**

09:00



### Friday 27 June

09:00

Morning Session: Nuclear Astrophysics (I) Session | Location: Sinaia, Romania, Hotel International\*\*\*\* 1st. Avram lancu Street, Sinaia 106100, Romania | Convener: Aurora Tumino 09:00-09:55 Probing Stellar Reactions with MUSIC: Advancing Nuclear Astrophysics through **Active-Target Detection** Speaker Eilens Lopez Saavedra 09:55-10:50 R-matrix reaction rate calculations Speaker James deBoer 10:50-11:10 Coffee break 11:10-12:05 Insights into Nuclear Astrophysics Through Analyzing Isotope Ratios of Presolar **Grains** Speaker Nan Liu 12:05-13:00 Precise Nuclear Astrophysics Experiments in the Multi-Messenger Era - Institute of modern physics Speaker Xiaodong Tang 13:00

### Saturday 28 June

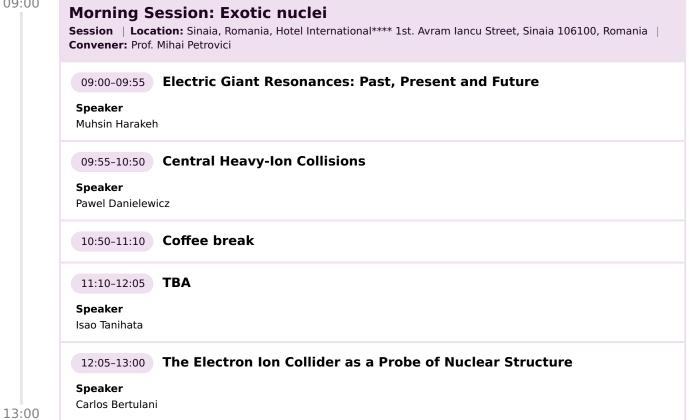
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## Monday 30 June

09:00



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### **Tuesday 1 July**

09:00



### Wednesday 2 July

09:00

