

Session Program

22 June 2025 to 3 July 2025



Carpathian Summer School of Physics 2025

Afternoon Session

Sinaia, Romania

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

Monday 23 June

15:00

Afternoon Session: Session 2

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania | **Convener:** Livius Trache

15:00-15:50

Exploring the Universe at highest energies with the Pierre Auger Observatory: Status and latest results

Speaker

Dr Paula Gina Isar

15:50-16:10

Coffee Break

16:10-17:00

Bird's View on the Chart of Nuclides with Some Selected Zooms

Speaker

Prof. Catalin Borcea

17:00

Tuesday 24 June

15:00

Afternoon Session: Small accelerators (II)

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania |
Convener: Dr Mihai Straticiuc

15:00–15:50

Current status of the Ion irradiation Platform for Exploring Nano-Satellites Resilience to Space Radiation and future perspectives

Speaker

Ion Burducea

15:50–16:10

Coffee break

16:10–16:40

Application of cosmogenic nuclide dating in geosciences: Results from the RoAMS laboratory

Speaker

Daniela Pascal

16:40

Thursday 26 June

15:00

Afternoon Session: Session 7

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania |
Convener: Radu Budaca

15:00–15:50

Extreme Light Infrastructure - Nuclear Physics Status update

Speaker

Ioan Dancuș

15:50–16:10

Coffee break

16:10–16:40

Emission processes in a self-consistent field

Speaker

Alexandru Dumitrescu

16:40

Friday 27 June

15:00

Afternoon Session: Exotic phenomena

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania |
Convener: Alexandru Dumitrescu

15:00–15:50

Investigating physics beyond SM through double-beta decay

Speaker

Sabin Stoica

15:50–16:10

Coffee break

16:10–16:40

Resonant scattering by the TTIK approach

Speaker

Aliya Nurmukhanbetova

17:00

Saturday 28 June

14:00

18:00

Afternoon Session: Outreach session - Do we surrender Science to AI and social media discussions

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania |
Convener: Livius Trache

Monday 30 June

15:00

Afternoon Session: Nuclear Physics

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania | **Convener:** Pawel Danielewicz

15:00-15:50

Multifaceted impact of shape coexistence in neutron-rich nuclei within a beyond-mean-field approach

Speaker

Alexandrina Petrovici

15:50-16:10

Coffee break

16:10-17:00

Linear Accelerators, applications and frontiers**Speaker**

David Alesini

17:00-17:50

Status of RIF@ IFIN-HH**Speaker**

Florin Negoita

18:10

Tuesday 1 July

15:00

Afternoon Session: Neutron Stars

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania | **Convener:** Karlheinz Langanke

15:00–15:50

On the internal constitution of neutron stars and their equation of state

Speaker

Nicolas Chamel

15:50–16:10

Coffee break

16:10–17:00

Exploring finite temperature equations of state for astrophysical simulations. A Bayesian approach.

Speaker

Adriana R. Raduta

17:00–17:50

Neutron stars. A novel view on the inner crusts.**Speaker**

Mikhail Beznogov

17:50

Wednesday 2 July

15:00

Afternoon Session: Last and Closing

Session | **Location:** Sinaia, Romania, Hotel International**** 1st. Avram Iancu Street, Sinaia 106100, Romania | **Convener:** Dan Cozma

15:00–15:50

Nuclear properties around the particle separation threshold using γ -ray and charged particle probes

Speaker

Pär-Anders Söderström

15:50–16:10

Coffee break

16:10–16:40

ELIFANT Spectrometer: A State of the Art Instrument for Experiments of High Energy Gamma-Rays

Speaker

Aslı KUŞOĞLU

16:40–17:10

Searching For Quaking Pulsars Through Gravitational Waves**Speaker**

Sagnik Chatterjee

17:10