# **Session Program**

22 June 2025 to 3 July 2025



# Carpathian Summer School of Physics 2025 Student Communications

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

## Monday 23 June

17:00

### **Student Communications**

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

17:00-17:20

Development of a detection system for identification of multinucleon transfer reactions near 00

Speaker

Silvia Ise

17:20-17:40

Direct measurement of the carbon-carbon fusion cross section at stellar energies

Speaker

Yunzhen Li

17:40-18:00

Experimental Study of the  $13C(\alpha, n)160$  Neutron Source Reaction in Stellar

Speaker

Yihua Fan

## **Tuesday 24 June**

16:40

### **Student Communications**

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

16:40-17:00 Development efforts toward a Matrix Ion Detector for CRYRING@ESR

Speaker

Andrei Hotnog

17:00-17:20

Improvement of a Plastic Scintillator with Different Coatings for Gamma-Ray Redection

Speaker

Jonathan Méndez

17:20-17:40 Neutron shielding studies for underground large detectors

Speaker

Denis Barbu

17:40-18:00

Development of a Neutron Dosimeter: Instrumentation and Applications in **Radiation Protection** 

Speaker

Ignacio Corazza

# Wednesday 25 June

## **Thursday 26 June**

16:40

#### **Student Communications**

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

16:40-17:00

Monte Carlo simulations of LPA VHEE dose distributions in water phantom

Speaker

Ionut Slabu

17:20-17:40

Measurement of the 180( , )22Ne reaction with DRAGON in inverse kinematics

Speaker

**Dhruval Shah** 

17:40-18:00

Proton and Alpha induced reactions on light nuclei for nuclear structure and astrophysics

Speaker

Virender Ranga

18:00-18:20

Experimental Nuclear Methods and Application of the EMPIRE Statistical Reaction Code for Determining Cross-Sections of The Reaction 12C+19F

Speaker

Andrei Cristian Opincă

## Friday 27 June

17:00

**Student Communications: Sponsors presentation and experiment** 

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

17:00-17:20

Proton-neutron pairing and quartetting in N=Z nuclei in the framework of the Quark-Meson Coupling model

Speaker

Theodor Popa

17:20-17:50

Methods for Dose, LET and Energy Measurements in Ultra-High Dose Rate (UHDR) Beams

Speaker

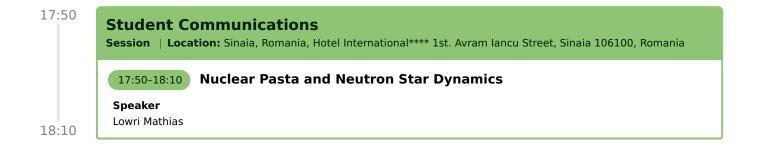
Radu Alin Vasilache

17:50-18:30 Vacuserv presentation followed by experiments

Speaker

Mircea Lupaș

# **Tuesday 1 July**



# Wednesday 2 July

17:10

#### **Student Communications**

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

17:10-17:30 Modeling 97Tc Electron Capture for Neutrino Mass Applications

Vasile-Alin Sevestrean

17:30-17:50

**Exploring Double-Layered Targets Efficiency in Laser-Driven Photon Source Production** 

Speaker

Dragana-Biliana Dreghici

17:50-18:10

Toward Understanding of Nuclear Spin Relaxation at Zero-to-Ultralow Fields

Speaker

Florin Teleanu