

Session Program

18-27 Aug 2021

Carpathian Summer School of Physics 2020

Communications

Sinaia, Romania

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

Thursday 19 August

16:10

Communications

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

16:10–16:30

Presupernova evolution and nucleosynthesis of very low metallicity massive stars

Speaker

Lorenzo Roberti

16:30–16:50

The Astronomical discoveries led by the study of Cepheid variables

Speaker

Sofia Sanz Del Pino

16:50–17:10

Me, Al Cameron, and the Heat Death of the Universe

Speaker

Dr David Kahl

17:10–17:30

From Nuclear Structure and Dynamics to rp-Process Nucleosynthesis in X-Ray Bursts

Speaker

Adrian Mare

17:30–17:50

Nucleosynthesis & p-process

Speaker

Ms Yasmine Demane

17:50–18:10

α -induced cross section measurements on neutron rich Zr and Mo nuclei

Speaker

Tibor Szegedi

18:10

Monday 23 August

17:40

Communications

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

17:40-18:00

Characterization of laser-accelerated protons based on the excitation of nuclear isomeric states

Speaker

Mr Lucian Tudor

18:00

Tuesday 24 August

16:50

Communications

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

16:50–17:10

Breakup of 9C

Speaker

Ms Alexandra Stefanescu

17:10–17:30

Search for Supernova R-process actinides in geological reservoirs

Speaker

Ms Iuliana Stanciu

17:30

Wednesday 25 August

15:00

Communications

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

15:00–15:20

Introduction to muography

Speaker

Dr Denis Stanca

15:20–15:40

Muography applications at IFIN-HH

Speaker

Ms Raluca Smau

15:40–16:00

Neutron capture cross section measurements of ^{241}Am at the n-TOF facility

Speaker

Dr Andreea Oprea

16:00–16:20

Coffee Break

16:20–16:40

MonteCarlo Tools for β Decay Spectra Calculations

Speaker

Mr Gustavo Adolfo Alcalá Escalona

16:40–17:00

Beta decay studies around ^{100}Sn region

Speaker

Mr Jose Antonio Victoria Fernández

17:00–17:20

Beta-delayed proton decay of ^{27}P

Speaker

Mr Ionut Stefanescu

17:20–17:40

First gamma-ray spectroscopy of neutron rich Scandium isotopes

Speaker

Ms Radostina Zidarova

17:40–18:00

Digital signal reconstruction of AERA data

Speaker

Ms Madalina Dobre

18:00–18:20

Distinguishing Between the Different Mechanisms Contributing to Neutrinoless Double-Beta Decay

Speaker

Mr Vasile-Alin Sevestrean

18:20

Thursday 26 August

12:00

Communications

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

12:00–12:20

Activation measurement of the $3\text{He}(\alpha, \text{g})7\text{Be}$ reaction around known 7Be levels

Speaker

Mr Ákos Tóth

12:20–12:40

Measurement of beta-decay properties of very neutron rich Pm isotopes for r-process studies

Speaker

Mr Sándor Kovács

12:40–13:00

RIB formation with supersonic jets at ELI-NP

Speaker

Mr Alexandru State

13:00

15:00

Communications

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

15:00–15:20

Studies on memristive devices. 3 MV Tandetron implantation beam line developments

Speaker

Mr Radu Andrei

15:20–15:40

Accelerator Mass Spectrometry of Plutonium Isotopes at IFIN-HH

Speaker

Dr Doru Pacesila

15:40–16:00

Photonuclear Production of Medically Relevant Radionuclides at ELI-NP

Speaker

Mr Vlad Vasilca

16:00–16:20

Coffee Break

16:20–16:40

A geant4 study of background reduction in pulsed gamma beam experiments in ELI-NP

Speaker

Ms Fan Zhu

16:40–17:00

Targets used in laser-driven proton acceleration based on TNSA mechanism

Speaker

Mr Alexandru Magureanu

17:00–17:20

Thermal and gamma irradiation qualification of PLA/SIS blends for packaging and medical applications

Speaker

Ms Ana-Maria Lupu

17:20–17:40

Radiological protection simulations in Monte Carlo numerical codes and dosimetry equipment for ELI-NP facility

Speakers

Ms Irina Avram, Ms Eugenia-Mihaela Coiciu

17:40