

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, AI 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 ${}^3\text{He}(\text{a},\text{g}){}^7\text{Be}$ reaction around known ${}^7\text{Be}$ 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

<p>Speaker Mr Alexandru Magureanu</p>
<p>17:00-17:20</p>
<p>Thermal and gamma irradiation qualification of PLA/SIS blends for packaging and medical applications</p>
<p>Speaker Ms Ana-Maria Lupu</p>
<p>17:20-17:40</p>
<p>Radiological protection simulations in Monte Carlo numerical codes and dosimetry equipment for ELI-NP facility</p>
<p>Speakers Ms Irina Avram, Ms Eugenia-Mihaela Coiciu</p>

17:40