

Session Program

10-18 Jul 2026

**Trans-European School of High Energy
Physics 2026**

Students projects

Friday 17 July

11:30

Students projects

Session | **Location:** Stefan cel Mare University of Suceava (USV), 13 University Street, 720229 Suceava, Romania

11:30–11:39 **Search for the charged Higgs bosons using machine learning**

Speaker

Azad Afandizada

11:39–11:48 **Energy Resolution Studies for the ALLEGRO Noble Liquid Calorimeter**

Speaker

Alexandru Valentin Avram

11:48–11:57 **Probing GPDs in exclusive dijet electroproduction**

Speaker

Mr Trambak Jyoti Chall

11:57–12:06

Studies of X(6900) in Two-Photon Scattering via Ultrapерipheral Collisions

Speaker

Longjie Chen

12:06–12:15 **Determining dimuon branching fraction of $\psi(2S)$ from ATLAS data**

Speaker

Leila Cherkezishvili

12:15–12:24 **Statistical analysis for the discovery of exotic particles**

Speaker

Daniel Cristian Costache

12:24–12:33 **Systematic Uncertainties in Ultraheavy Diquark Searches**

Speakers

Anca-Maria Dinu, Anca-Maria Dinu

12:33–12:42

Impact of LHC Operational Configurations on SND@LHC Muon Measurements

Speaker

Ivaylo Dionisov

12:42–12:51 **B_s to $K_S K_S$ branching fraction measurement with Run3 at LHCb**

Speaker

Jurgen Francis Diverchy

12:51–13:00 **Charged-particle multiplicity distribution**

Speaker

Lucas Jose Franco Da Silva

13:00-13:09

Photoluminescence of Europium(III) Coordination Complexes: Design, Antenna Effect, and Applications in Red/White LEDs and Sensors**Speaker**

Vladislav Ghenea

13:09-13:18

Prospects for the creation of plasma accelerators in Ukraine**Speaker**

Maksym Hershun

13:18-13:27

GRAiNITA calorimeter simulation**Speaker**

Tykhon Kurkin

13:30

14:30

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14:30-14:39

Search for new physics at LHCb: The Measurement of Delta Gamma d**Speaker**

Anna Kurzina

14:39-14:48

Fine-granularity scintillation module for sampling calorimeter**Speaker**

Anzhelika Kuzmina

14:48-14:57

Detection of Muons Produced by Ultrashort High-Intensity Laser**Speaker**

Rusudan Kvesitadze

14:57-15:06

Study of Jpsi Meson Decays at the LHCb Experiment**Speaker**

Jinzhen Li

15:06-15:15

Irradiation effects on microstructural transformations in Fe-Cr-Al alloys for high-temperature reactors**Speaker**

Borys Lysenko

15:15-15:24

Angular analysis of B->phi ee decays at LHCb**Speaker**

Jay Lyu

15:24-15:33

Development of composite absorber based on tungsten granules embedded in organic binder for HEP applications**Speaker**

Diana Malakhova

15:33-15:42

Simulation of the Collimation System for the PERLE Accelerator

Speaker

Serhii Melnyk

15:42–15:51

Machine learning based tracking for MUonE experiment**Speaker**

Damian Artur Mizera

15:51–16:00

Study of the Higgs boson in the H to ZZ* to 4l channel with the ATLAS experiment**Speaker**

Alexandru Moroşanu

16:00–16:09

Cluster Reconstruction in Electromagnetic Calorimeters Using Convolutional Neural Network**Speaker**

Ruslan Nastaev

16:09–16:18

Low Temperature Physics**Speaker**

Liubov Pashchenko

16:20–16:50

Break

16:54–17:03

Simulation and digitalization for SHiP/SBT**Speaker**

Andrii Pauchkov

17:03–17:12

Passing Muon simulation using Normalizing Flow with SND@LHC**Speaker**

Pongkorn Thanariyaboonsiri

17:12–17:21

GARFIELD++ SIMULATION: Studying ionization process in gas of a resistive Micromegas detector**Speaker**

Rostyslav Turchyn

17:21–17:30

Analysis of Ultra-High-Energy Cosmic Rays in the Region of GRB 060614 using the Pierre Auger Observatory Open Data**Speaker**

Cristina Gabriela Ulea

17:30–17:39

A comparative study of mass reconstruction techniques for W and Z bosons in triple gauge coupling processes**Speaker**

Victoria-Adriana Varga

17:39–17:48

Flavour-tagged time dependent analysis of the $B^0 \rightarrow K^0_S \eta'$ decay with LHCb Run2 + Run3 data

Speaker Pio Francesco Varrella	
17:48-17:57	Software Development and Simulation Studies for the Upgrade of the Electromagnetic Calorimeter in the LHCb Experiment Speaker Jiye Zhang
17:57-18:06	Muon Deep Inelastic Scattering in the Electronic Detectors of SND@LHC Speaker Georgi Zlatinov
18:06-19:00	Council
19:00-19:30	Summary

19:30