

Session Program

4-6 Nov 2026

ELI-RO Symposium 2026

***Call 2024-2027: Project presentations:
scientific progress and perspectives (Public
Session)***

IFA, IFA/9-905

Wednesday 4 November

10:20

Call 2024-2027: Project presentations: scientific progress and perspectives (Public Session)

Session | Location: IFA, IFA/9-905

10:20-10:45

Complementary Investigations for Photon beams - High-Energy nuclear Resonant States with charged particle probes (CIPHERS)

Speaker

Dr Söderström Pär-Anders

10:45-11:10

Dose RATE Measurement and identification of biological effects in a Laser-Plasma Accelerator at ELI-NP (DRAM)

Speaker

Dr Ovidiu TESILEANU

11:10-11:35

A New Scheme for Advancing Nuclear Photonics with Multi-photon Absorption Process and High-power lasers (AMAP)

Speaker

Dr Chieh-Jen YANG

11:35-12:00

Coffee / Tea Break

12:00-12:25

Understanding FLASH irradiation effect on cancer cells using laser-induced very high energy electrons and in vitro tumor-on-chip assays (FLASH CANCELLS)

Speaker

Dr Felix SIMA

12:25-12:50

High-Energy Particles and Radiation Sources / HEPaRaS (HEPaRaS)

Speaker

Dr Ter-Avetisyan SARGIS

12:50-13:15

A Scheme for Polyvalent Acceleration with the Peeler Regime Concept (SPARC)

Speaker

Dr Horny VOJTECH

13:15-15:00

Break

15:00-15:25

Life prolongation of fs-laser mirrors through decontamination, endurance limit improvement and in situ monitoring (DELISM)

Speaker

Dr Valentin CRACIUN

15:25-15:50

Direct laser acceleration in the multi-PW regime for electron and photon beams generation using hollow targets (DELPHI)

Speaker

Dr Mihail CERNAIANU

15:50-16:15

Pathways towards laser-neutron-induced radioplogic production and enhancement of FDA approved ¹⁷⁷-Lu-based prostate cancer therapies supported by in-vitron essays (LaLuThe)

Speaker

Dr Klaus SPOHR

16:15-16:40

Enhanced proton acceleration in near critical density plasmas by engineering multi-layer targets and applications (HighProtonPLas)

Speaker

Dr Catalin Mihai TICOS

16:40-17:05

Coherent combination of high-power femtosecond laser pulses (LAS-COMB)

Speaker

Dr Simion SANDEL

17:05

Thursday 5 November

10:00

Call 2024-2027: Project presentations: scientific progress and perspectives (Public Session)

Session | Location: IFA, IFA/9-905

10:00-10:25 LWFA-driven Gamma Source (LGS)

Speaker

Dr Petru GHENUCHE

10:25-10:50

Ionizing radiation-powered photodynamic therapy for targeted cancer treatment (RAY-PDT)

Speaker

Dr Angela STAIU

10:50-11:15

Extreme Light Infrastructure Target Engineering (ELITE)

Speaker

Dr Mihaela FILIPESCU

11:15-11:35

Coffee / Tea Break

11:35-12:00

A novel laser-induced forward transfer approach for the development of mass-limited targets for ion acceleration (FLIGHT)

Speaker

Dr Alexandra PALLA-PAPAVLU

12:00-12:25

High-Power laser generated ultra-intense transient magnetic field molecular effects on leukemic and lymphomatous cancer cells (HiPoCell)

Speaker

Dr Aurelian MARCU

12:25-12:50

REal-time Molecular Imaging of reactive oxygen species effects in tumoral, non-tumoral and immune cells using high-power LASer and plasma Sources In the FLASH and conventional regime (REMILASI_FLASH)

Speaker

Dr Paul VASOS

12:50-13:15

Frontier nuclear fission studies at ELI-NP (ELITE)

Speaker

Dr Dimitar BALABANSKI

13:15