

IRTG 2891 Nuclear Photonics - Annual Workshop 2024

Tuesday, 29 October 2024 - Friday, 1 November 2024

ELI-Beamlines Programme

Tuesday 29 October 2024

Welcome (09:00-09:20)

Keynote I (09:20-10:10)

time	title	presenter
09:20	Science Offer at ELI Beamlines	MARGARONE, Daniele (ELI Beamlines)

Oral contributions I (10:10-10:35)

time	title	presenter
10:10	Online diagnostics for high-intensity laser-plasma radiation characterization	Dr ISTOKSKAIA, Valeria (ELI Beamlines facility, Extreme Infrastructure ERIC)

Coffee break (10:35-10:55)

Oral contributions II (10:55-11:45)

time	title	presenter
10:55	Amplifying ultrashort high intensity laser pulses using Self Phase Modulation	OKUKURA, Andrew-Hiroaki (Extreme Light Infrastructure - Nuclear Physics (ELI-NP))
11:20	High-brilliance gamma bursts by PW-class laser pulses interacting with a nanoblade target	COROBEAN, Bogdan (ELI-NP)

Lunch break (11:45-13:00)

Oral contributions III (13:00-13:50)

time	title	presenter
13:00	The electric dipole response of ^{106}Pd nuclei	SEBE, Teodora-Maria (ELI-NP, UNSTPB)
13:25	Nuclear resonance fluorescence of ^{242}Pu	BEUSCHLEIN, M. (Technische Universität Darmstadt, Department of Physics, Institute for Nuclear Physics, Darmstadt, Germany)

Coffee break (13:50-14:10)

Open Discussion I - Science (14:10-15:00)

Assembly of RTs (15:00-16:00)

Wednesday 30 October 2024

Keynote II (09:00-09:50)

time title

presenter

09:00	P3 platform at ELI Beamlines for High Energy Density Physics and Ultrahigh Intensity Interactions	SINGH, Raj Laxmi (ELI Beamlines)
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Oral contributions IV (09:50-10:15)

time title

presenter

09:50	Cryogenic and Liquid Targets for High-Repetition-Rate, High-Intensity laser-matter interaction	CHAGOVETS, Timofej (ELI Beamlines)
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Coffee break (10:15-10:45)

Oral contributions V (10:45-11:45)

time title

presenter

10:45	Simulating the focusing of laser-plasma accelerated particle beams	Mrs NALBARU, Laura Anamaria (National University of Science and Technology Politehnica Bucharest)
11:10	Status of the new Bunch Length Measurement System Downstream of the Injector of the S-DALINAC*	BRAUCH, A. (Technische Universität Darmstadt)

Lunch break (11:45-13:00)

Oral contributions VI (13:00-13:50)

time title

presenter

13:00	Nanostructured targets for improved interaction in the high intensity laser experiments	IONESCU, Stefania (ELI-NP)
13:25	Multispecies Targets for Spectral Control in Laser-Ion Acceleration	Ms GRIMM, Sarah Jane (Technische Universität Darmstadt, Department of Physics, Institute for Nuclear Physics, Darmstadt, Germany)

PhD Committee Meeting I (13:50-14:35)

Coffee break (14:35-15:00)

ELI-Beamlines Tour (15:00-17:00)

Evening Session (17:00-18:30)

Thursday 31 October 2024

Keynote III (09:00-09:50)

time	title	presenter
09:00	(TBD) Statistical Properties of Atomic Nuclei	KRTICKA, Milan (Charles University in Prague)

Oral contributions VII (09:50-10:15)

time	title	presenter
09:50	Internal fluctuations of partial transition widths of 150Nd	ISAAK, Johann (TU Darmstadt) PAPST, Oliver (TU Darmstadt)

Coffee break (10:15-10:35)

Oral contributions VIII (10:35-12:15)

time	title	presenter
10:35	Probing the Giant Dipole Resonance Using Nuclear Resonance Fluorescence	KLEEMANN, J. (Technische Universität Darmstadt, Department of Physics, Institute for Nuclear Physics, 64289 Darmstadt, Germany)
11:00	Simultaneous measurement of fragment mass, energy, and angular distributions from the $^{234}\text{U}(\gamma, f)$ reaction	WENDE, Vincent (Institut für Kernphysik, Fachbereich Physik, Technische Universität Darmstadt, Darmstadt, Germany)
11:25	Microscopic description of collective inertias for fission	COVALAM VIJAYAKUMAR, Nithish Kumar (Technische Universität Darmstadt)
11:50	The study of the $^7\text{Li}(\gamma, \alpha)^3\text{H}$ reaction at energies below 6 MeV at HIγS	KUNCSER, Ioana (ELI-NP)

Lunch break (12:15-13:15)

PhD Committee Meeting II (13:15-14:00)

Assembly of ECRs (14:00-14:45)

Coffee break (14:45-15:00)

General Assembly (Closed session) (15:00-16:00)

Open Discussion II - Feedback (16:00-16:45)

Friday 01 November 2024

Good Scientific Practice & Research Data Management (09:00-10:00)

Coffee break (10:00-10:20)

Oral contributions IX (10:20-11:35)

time	title	presenter
10:20	Control of spatio-temporal correlations for experiments with synchronized laser pulses	DUMITRU, Alice (ELI-NP)
10:45	Gradient based beam line optimization for laser-accelerated ions using surrogate models	DEWITT, Daniel (Technische Universität Darmstadt)
11:10	Optimizing High-Energy Photon Generation via Nonlinear Inverse Compton Scattering in Structured Targets Using 3D PIC Simulations	Ms DREGHICI, Dragana

Lunch break (11:35-12:20)

Oral contributions X (12:20-13:10)

time	title	presenter
12:20	Correlation of forward and backward acceleration at TNSA	KOHL, Jonas
12:45	Exploring the Impact of Spatio-Temporal Couplings on Ultra-Intense Laser Pulses	ALEXE, Cristian (ELI-NP)

Open Discussion III & Farewell (13:10-13:45)