IRTG Days

Int'l Research-Training Group IRTG 2891 "Nuclear Photonics"



August 6, 2024 (S103|100)

Agenda



August 6, 2024		
9:00	Welcome greetings (S103 100)	Prof. Norbert Pietralla Spokesperson IRTG 2891, TU Darmstadt
		Dr. Florian Kroll Helmholtz-Zentrum Dresden-Rossendorf
9:30	Radiobiological animal studies with laser- accelerated particle beams	Dr. Florian Kroll
10:00	Atomic Physics for Laser Plasma Accelerators	Brian Edward Marre
10:30	Coffee break	
11:00	Laser electron accelerator as a compact light source for photoactivation experiments	Franziska Marie Herrmann
11:30	Fourier propagators as synthetic diagnostics in PIConGPU	Finn-Ole Carstens
12:00	Lunch break	
13:00	Absolute energy-dependent scintillating screen calibration for real-time detection of laser-accelerated proton bunches and other scintillator based detectors	Joshua Schilz
13:30	Plasma instabilities can be probed with X-ray scattering	Paweł Ordyna

14:00	Influence of Laser Pre-Pulse Ramps on Proton Acceleration from Plastic Targets in 1D and 2D PIC Simulations	Franziska Paschke-Bruehl
14:30	Cryogenic hydrogen jet target platform to study high intensity laser-solid interactions and near-critical density proton acceleration	Stefan Assenbaum
15:00	Coffee break	
15:30	High-brilliance gamma bursts by PW- class laser pulses interacting with a nanoblade	Bogdan Corobean
16:00	Nanostructured targets in high power laser experiments	Ștefania Ionescu
16:30	Gradient based beam line optimization for laser-accelerated ions using surrogate models	Daniel Dewitt
18:30	Dinner	

August 7, 2024		
9:30	S-DALINAC Tour	
	Rendezvous @ S103 100 - 9:15 OR S2 14 - 9:30	
10:30	Coffee break	
11:00	Conclusion & Farewell	
11:30	Lunch break	