45th International Workshop on High-Energy-Density Physics with Intense Ion and Laser Beams

January 26th ⁻ February 1st, 2025

Darmstädter Haus (Waldemar Petersen Haus)

Hirschegg, Austria



Program

Monday (January 27th)

Start	Duration	Speaker	Title	
	Session 1: HED and LPA Facilities (Chair: M. Zepf)			
08:40	0:10	MATT, Zepf & BAGNOUD, Vincent	Welcome and Introduction	
08:50	0:30	SCHOENBERG, Kurt	The HED@FAIR Collaboration Status Report	
09:20	0:30	SPILLER, Peter	Progress in Construction of SIS100 and Beam Performance of SIS18	
09:50	0:30	SCHRAMM, Ulrich	Status and Application Perspectives of Laser Plasma Accelerators	
10:20		Coffee break		
		Session 2: L	PA Facilities (Chair: Zs. Major)	
10:50	0:30	MUGGLI, Patric	AWAKE: Plasma Wakefield Acceleration and Beam-Plasma Interactions	
11:20	0:30	SEIDEL, Andreas	Advanced Characterization of Passive Plasma Lensing for Ultrashort Electron Bunches	
11:50	0:20	NAZARY, Haress	The LIGHT beamline - Current and Future Projects	
12:10		Lunch break		
	T	Session 3: Relativistic La	aser Plasma Interaction (Chair: S. Kuschel)	
17:00	0:30	SEIPT, Daniel	Nonlinear Breit-Wheeler Pair Production Using Polarized Photons from Inverse Compton Scattering	
17:30	0:30	VIEIRA, Jorge	Modeling Structured Light in Plasma-Based Accelerators and Light Sources	
18:00	0:20	ZHAO, Yu	Relativistic Solitions in the Wake of a High-Power Laser Pulses in Underdense Plasmas	
18:20	0:20	PUKHOV, Alexander	e-e+ Plasma Generation and Dynamics in Laser Interaction with Solid-State Targets	
18:40	0:20	SALGADO, Felipe Cezar	Pair Production in the Non-Perturbative Regime at CALA	
19:15		Dinner	(only for house guests)	
20:30			HED@FAIR Executive Meeting	

Tuesday (January 28th)

Session 4: Laser-Driven Ion Sources I (Chair: V. Bagnoud) 08:30 0:20 REICHWEIN, Lars Acceleration of Spin-Polarized 3He Beams with Laguerre-Gaussian Laser Pulses 08:50 0:20 GRIMM, Sarah J. Multispecies Targets for Spectral Control in Laser-Ion Acceleration of Operation of Giga-Electron-Volt Proton Beams by Micronozzle Acceleration of Diverse Ion Species from Different Novel Targets 09:30 0:20 WANG, Pengjie Laser Acceleration of Diverse Ion Species from Different Novel Targets 09:50 0:20 GEULIG, Laura D. Acceleration of In-Target Fission Fragments with the ATLAS-3000 Laser System 10:10 00:30 Coffee break Session 5: Laser-Driven Ion Sources II (Chair: S. Glenzer) 10:40 0:20 BOLLER, Pascal Prepulse-Induced Changes in Ion Beam Direction: Insights from TNSA Regime Experiments and Simulations at PHELIX 11:00 0:20 ASSENBAUM, Stefan Prediction of Laser-Induced Breakdown in Sub-Micron-Thick Dielectric Targets for Laser-Ion Acceleration 11:20 0:20 HILZ, Peter Proton Acceleration from Ultrathin Folls 12:00 0:20 SCHILZ, Joshua D. Solenoid Design Optimization for Improved Beam Transport and Operation at High Repetition Rate 12:20 Lunch break Session 6: Basic Properties of WDM/HED I (Chair: K. Schoenberg) 17:00 0:20 PIRIZ, Roberto Nonlinear Model for the Single Mode Rayleigh-Taylor Instability 17:40 0:20 TAHIR, Naeem Simulations of Low-Entropy Compression of Carbon Sample in LAPLAS Scheme Using Intense Heavy Ion Beams at GSI/FAIR 18:00 0:20 RETHFELD, Barbel Aspects of Electron-Phonon Coupling in Laser-Excited Solids 19:00 19:00 RETHFELD, Barbel Aspects of Electron-Phonon Coupling in Laser-Excited Solids 19:00 19:00 RETHFELD, Barbel Aspects of Electron-Phonon Coupling in Laser-Excited Solids	Start	Duration	Speaker	Title
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	18:00	0:20	LÜTGERT, Julian	• • •
19:00 Dinner (only for house guests)	18:20	0:20	RETHFELD, Bärbel	Aspects of Electron-Phonon Coupling in Laser-Excited Solids
2 miles (only for house guests)	19:00		Dinner	(only for house guests)

Wednesday (January 29th)

Start	Duration	Speaker	Title	
	Session 7: Basic Properties of WDM/HED II (Chair: B. Rethfeld)			
08:30	0:30	DROMEY, Brendan	Ultrafast Nanodosimetry – Unlocking the Role of Nanoscale Structure and Ultrafast Dynamics During Radiation Interactions in Matter	
09:00	0:20	WEGERT, Leonard	Observing the Evolution of Proton-Heated Foam Microstructure Using X-Ray Talbot Interferometry	
09:20	0:20	MUTHREICH, Nils	Non-Linear X-Ray Scattering of Ultrathin Fe and Au Foils at SACLA	
09:40	0:20	BESPALOV, Dmitrii	High-Resolution Plasmon Dispersion in Compressed Aluminum at the EuXFEL	
10:00	00:50	Coffee break		
10:50	1:30	Poster Session 1		
12:20		Lunch break		
17:00	1:30	Poster Session 2		
18:40	00:20	Conference Board Meeting		
20:00			Conference Dinner at Birkenhöhe	

Thursday (January 30th)

Thursday (January 50)			
Start	Duration	Speaker	Title
	Session 8	3: Transient Phenomena	a and Dynamic Transitions in WDM (Chair: P. Neumayer)
08:30	0:30	KRAUS, Dominik	Dynamic Megabar Chemistry for Planetary Interiors, New Materials and IFE
09:00	0:20	LEUTLOFF, Jan	Transient Resonances in Few nm Au Nanoparticles at LCLS
09:20	0:20	KLEINSCHMIDT, Uwe	A Coductivity Model for Hydrogen Based on Ab Initio Simulations
09:40	0:30	HESSELBACH, Philipp	X-ray Absorption Spectroscopy of Heavy-Ion Heated Aluminum at the HHT Station of GSI
10:10	00:20	Coffee break	
		Session 9: Laser-D	Priven Electron Acceleration (Chair: J. Ren)
10:30	0:30	KARSCH, Stefan	Towards Ultracold Electron Beams - High-Transfer Efficiency in Hybrid PWFA-LWFA
11:00	0:30	KIRCHEN, Manuel	High Average Power Laser Plasma Acceleration at DESY
11:30	0:30	HIDDING, Bernhard	Paving the Frosted Path to Ice-Cold, Ultra-Low Emittance Beams Low Emittance
12:00	0:20	PAUW, Viktoria	Data Management for Post-Processing on PIC-Simulations of Laser- Plasma Acceleration
12:20		Lunch break	
		Session 10:	Laser-Driven Fusion (Chair: S. Neff)
17:00	0:20	GLENZER, Siegfried	Demonstration of Laser-Driven Energetic Ion Beams with Unprecedented Flux for Inertial Fusion Research
17:20	0:20	PECOVER, James	Reaching TPa Pressures for EoS Measurements on Modest Machines (and the Z Machine)
17:40	0:20	MEYER-TER-VEHN, Juergen	Selfsimilar Compression Solutions, Useful for IFE
18:00	0:20	RUHL, Hartmut	Non-Cryogenic DTs and Their Relevance for Nuclear Fusion
18:20	0:20	SCHOLLMEIER, Marius	First Experimental Evaluation of Laser Absorption, Ion Acceleration Efficiency, and Neutron Generation Utilizing a 10-PW-Driven Nano Accelerator Embedded in a Proton-Boron-Deuterium Compound Target
18:40	0:20	MURAKAMI, Masakatsu	New Self-Similar Solution for Multi-Stacked Converging Shocks and High Compression of Matter
19:15		Dinner	(only for house guests)

Friday (January 31st)

Start	Duration	Speaker	Title	
	Session 11: Laser Technology (Chair: tba)			
08:30	0:20	MAJOR, Zsuzsanna	Technology for High-Repetition-Rate Intense Laser Laboratories: THRILL	
08:50	0:20	LOATA, Gabriel	Phase Conjugation of High-Energy Nd:glass Laser Pulses with Spatial and Temporal Fidelity	
09:10	0:20	BAGNOUD, Vincent	The FLARE Project: a High-Energy Laser Facility at FAIR for Fusion Research	
09:30	0:20	ZOBUS, Yannik	Holistic High-Intensity Laser System Modeling Using OPOSSUM: an Open-Source Optical Simulation Framework	
09:50	0:20	SAEVERT, Alexander	The TAF-project: Synchronized High Power Laser Experiments @ HI Jena	
10:10	00:20	Coffee break		
	Session 12: Frontiers in Simulation, Optimization, and Fusion Energy Research (Chair: tba)			
10:30	0:30	DOEPP, Andreas	Bayesian Approaches to Measurement and Optimization	
11:00	0:20	BOOS, Carl Georg	Laser Wakefield Acceleration Simulations with Orbital Angular Momentum Beams	
11:20	0:20	HOFFMANN, Dieter H.H.	The Quest for Proton Boron Fusion and Related Topics	
11:40	0:20			
12:00			Conclusion and End of Workshop	

Poster Session 1 (Wednesday, 10:50-12:20)

1	REN, Jieru	Observation of QED Effects and Configuration Interaction in Highly Charged Au Ions Produced by High Power Laser
2	MATHIAK, Oliver	Filamentation in Matter-Antimatter Plasma
3	REICHWEIN, Lars	Preparations and Target Fabrication for Investigating the Peeler Scheme at JETi200
4	KIESEL, Stefan	Combining a Penning Trap with a 200 TW Laser: Experimental Setup for High Intensity Laser-Ion Interaction
5	NÖTH, Markus	Five-Moment Model for Alpha and Neutron Energy Deposition
6	MARUYAMA, Sota	Generation of MT Magnetic Field by Bladed-Microtube Implosion
7	SCHREINER, Stephan	X-ray Talbot Interferometry for HED Experiments
8	AMOGH, Amogh	Large-Aperture, Liquid-Cooled Glass Amplifier Development at PHELIX
9	VALIALSHCHIKOV, Maksim	Numerical Optimization of Quantum Vacuum Signals
10	BARRIGA-CARRASCO, Manuel	Analysis of 4+ Carbon Projectiles Energy Loss Passing Through Carbon Plasma Experiment within LIGHT Project at GSI
11	NEFF, Stephan	Experimental Facilities for High-Energy Density and Warm Dense Matter Experiments at FAIR
12	GAO, Yifang	A Robust Method to Generate Brilliant Electrons Through Laser Interaction with NCD Plasma Converted from Hohlraum Radiation of Foam Target
13	NEUFELD, Finn	Integration of Measured Beam Profiles into PIC Simulations

Poster Session 2 (Wednesday, 17:00-18:30)

	1	
1	ZARROUK, Karim	Using Radiochromic Films for Angular Resolved Ion Spectrum Reconstruction
2	WINTER, Victor	High Density Gas Jet Characterization for Electron Acceleration Experiments at PHELIX
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12	ZOBEL, Nick	Relevance of Superconducting Accelerator Technologies for Future Energy Systems