



# Laser-Plasma Accelerators Workshop

## Monday, 14 April 2025

### Poster Session (17:00 - 18:40)

[id] title	presenter	board
[48] "Preliminary Study of the X-ray Betatron Radiation Source in the EuAPS Project"	STOCCHI, Federica	
[63] Development of a Plasma Cell Target for Higher Repetition Rates in Laser-Plasma Accelerators	SERHAL, Jana	
[18] Enabling energy-doubling at CLARA FEBE: High-quality beam generation in plasma wakefield acceleration	SABERI, Hossein	
[13] Analytic solutions for plasma expansion into vacuum	Dr BARNA, Imre Ferenc	
[41] Prediction of laser-induced breakdown in sub-micron-thick dielectric targets for laser-ion acceleration	ASSENBAUM, Stefan	
[76] Laser Acceleration of Protons in Hydrogen Gas Targets using 2 TW laser	TOMKUS, Vidmantas	
[97] Compact High-Energy Electron Spectroscopy via Nuclear-Static-Field Deflection	CHENG, Xiantao	
[102] Observation of Monoenergetic Electrons from Two-Pulse Ionization Injection in Quasilinear Laser Wakefields	VON DER LEYEN, Marko	
[99] Beam-loaded plasma photocathode beams for XFEL application to the water-window and beyond	BERMAN, Lily	
[137] Simulation studies in preparation for AWAKE Run 2c	MOREIRA, Mariana	
[103] Snapshot Hyperspectral Imaging of low-order chirped harmonics at GEMINI	DENIS, Elliott	
[16] Non-destructive charge monitoring in a harsh laser-plasma environment for medical applications	GREGOCKI, David	
[17] MACRO Tools for Real-time Analysis of Laser-driven Experiments at ELI-NP	Mx CATANA, Diana	
[21] Hybrid accelerator to deliver therapeutic electron beams at high energies	APSIMON, Oznur	
[79] ELIMAIA User Beamline: Dedicated Platform for Applications Using Laser-Driven Ion Beams	TRYUS, M.	
[90] Optimization of Laser Wakefield Acceleration for High-Quality Electron Beams: Simulations and Experimental Results in Collaboration with HZDR	MASCKALA, Mohamad	
[37] Plasma Mirror Operation for Staging Applications	HILLS, Jasmin	
[70] High quality electron beams for plasma based light sources.	THAKUR, Bhushan	
[50] Realization of plasma photocathode injection in a compact plasma accelerator powered by laser-accelerated electron beams	UFER, Patrick	
[78] Ultra-Short Laser Pulses: A Parameter Study for Laser Wakefield Acceleration	Mr D'SOUZA, Flanish	
[98] High-Energy OPCPA at Lund Laser Centre and its Application to LWFA	ANGELLA, Andrea	

<b>[31] Single-shot spectrometer with pointing angle correction for laser-driven electron beams featuring moderate pointing instability and transverse inhomogeneity</b>	VLACHOS, Simon	
<b>[19] Heavy-ion-driven plasma wakefield acceleration</b>	Mr LI, Jiangdong	
<b>[71] High electron charge accelerated in the SM-LWFA regime with the LMJ-PETAL laser</b>	DAVOINE, Xavier	
<b>[51] Numerical study of the target geometry on the proton-boron fusion yield under direct laser illumination</b>	NICOLAI, Philippe	
<b>[145] AWAKE: Towards high-energy electrons for particle physics experiments</b>	GSCHWENDTNER, Edda	
<b>[45] Electron acceleration by Laguerre-Gaussian beams from a high-density dual-staged plasma nozzle</b>	Dr TOMKUS, Vidmantas	
<b>[147] Experiment Concepts of Heavy-Ion Driven Plasma Acceleration with Muon Beams at the HIAF</b>	LIU, Jie	

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[60] Controlled Acceleration of Unstable Particles in Laser-Plasma Wakefields Using Structured Light	BADIALI, Chiara	
[151] Updates to the Xopt/Badger Ecosystem for Advanced Optimization and Online Control	ROUSSEL, Ryan	
[69] Transversely pumped laser driven particle accelerator	NUTTING, Tanner	
[94] Production of C-11 for PET imaging using a HRR laser-driven proton source	REIJA, Alicia	
[47] Laser-driven very high energy electrons for radiotherapy: beam characterization and radiobiological evaluation	GIACCAGLIA, Camilla	
[10] Machine Learning techniques for betatron diagnostics in AWAKE Run 2	SABERI, Hossein	
[106] Versatile, compact and highly stable OPCPA seeder for modern LPA laser drivers	COURJAUD, Antoine	
[4] Modeling of axion and electromagnetic fields interaction in particle-in-cell simulations	AN, Xiangyan	
[109] Plasma wakefield acceleration of light	THOMAS, Alec	
[39] Self-triggered strong-field QED collisions in laser-plasma interaction	MATHERON, Aimé	
[27] Relativistic Laser-Driven, Highly Collimated MeV Gamma-Ray and Electron Beam Generation in Plasma Cone Channels.	CHINTALWAD, Sachin	
[57] Advancing LWFA Beams for FEL Operation Using Synergies between Experiment, Simulation and Automation	PAUSCH, Richard	
[113] A generalized parallelization algorithm for Particle-In-Cell Simulations	FONSECA, Ricardo	
[34] Boosted Frame Simulations of Free-electron Lasers	LUO, Runfeng	
[58] First ML-Based Start-to-End Simulation of a Plasma Acceleration Facility integrated into Geant4: PALLAS - laser-plasma accelerator test facility	SYTOV, Alexei	
[95] Modeling of the electron beam dynamics in an electron beam transport for a laser-plasma accelerator based free-electron laser	MICESKI, Mihail	
[72] Mid-Infrared Laser Development for High Intensity Experiments	GUNN, Annabel	
[55] Laser experimental profiles initialization in PIC simulations	AVELLA, Federico	
[84] An Analysis of Electromagnetic Wave Propagation in a Conducting Cylinder with a Small Aperture	PARK, Chong Shik	
[110] Time-resolved betatron imaging of pulsed discharges in water	HUSSEIN, Amina	
[20] X-Ray Sources for Fast 3D Tomography Using Laser-Plasma Acceleration	CHAPELANT, Guillaume	
[56] Synthetic Optical Imaging for Investigating Injection Radiation in Hybrid LPWFAs	CARSTENS, Finn-Ole	
[65] Computational modelling of the semi-classical quantum vacuum in 3D	Ms ZHANG, Zixin	