

***EAAC 2023***  
***Poster Prizes Ceremony and talks***

***Roman Walczak (Oxford), Bernhard Holzer (CERN)***

# Poster session

71 Posters

... all of highest quality !!

Monday					
<a href="#">Dielectric Assist Accelerating (DAA) structures for compact linear accelerators</a>	<a href="#">Pablo Martinez-Reviriego</a>				
<a href="#">Beam Instrumentation for EuPRAXIA</a>	<a href="#">Rasmus Ischebeck</a>				
<a href="#">FEL performance of the APPLE-X undulators for the EuPRAXIA@SP</a>	<a href="#">Michele Opromolla</a>				
<a href="#">Wakefield regeneration in a plasma accelerator</a>	<a href="#">John Farmer</a>				
	<b>Tuesday</b>				
<a href="#">A focused very high energy electron beam for fractionated stereotactic radiotherapy</a>	<a href="#">Oliver Schaefer</a>				
<a href="#">High Resolution Radiography for Inertial Confinement Fusion Fuel</a>	<a href="#">Isabelle Schuster</a>	<a href="#">Characterization of Liquid Micro-Droplets for Laser-Driven Proton Acceleration</a>	<a href="#">Mathis Nolte</a>		
<a href="#">Simulation study on the impact of a single plasma accelerator stage</a>	<a href="#">Sara Schaefer</a>	<a href="#">BELLA IP2: The Short Focal Length Beamline for High Energy Density Experiments</a>	<a href="#">Lieselotte Obst-Huebl</a>		
<a href="#">Automated ML/AI software tools for high repetition rate laser particle accelerators</a>	<a href="#">M. I. S. S. S.</a>	<a href="#">Witness-driver beam dynamics optimization in the SPARC LAB photoinjector</a>	<a href="#">Martina Carillo</a>		
<a href="#">Laser Focal Position Correction Using FPGA-based ML models</a>	<a href="#">Natalia S. S.</a>	<a href="#">External Electron Injection for the AWAKE Run 2b Experiment</a>	<a href="#">Niki S. S.</a>	<b>Wednesday</b>	
<a href="#">Proton Beam Self-Modulation Instability in a DC Discharge Plasma Wakefield Accelerator</a>	<a href="#">Caroline S. S.</a>	<a href="#">The E336 experiment at FACET-II: Wakefield acceleration and modulation</a>	<a href="#">Max S. S.</a>	<a href="#">Spatiotemporal beam-plasma instabilities in the ultrarelativistic regime</a>	<a href="#">Yuliia Mankovska</a>
<a href="#">Generation of high-quality electron beams from trojan horse injection</a>	<a href="#">Patricia S. S.</a>	<a href="#">Instability and Efficiency in Beam-Driven Plasma Wakefield Accelerators</a>	<a href="#">Ole S. S.</a>	<a href="#">Noninvasive Cavity-Based Charge Diagnostic for Plasma Accelerators</a>	<a href="#">Simon Bohlen</a>
<a href="#">All-optical GeV electron bunch generation in a laser-plasma accelerator</a>	<a href="#">Emilia S. S.</a>	<a href="#">Effect of driver charge on wakefield characteristics in a plasma accelerator</a>	<a href="#">Susanne S. S.</a>	<a href="#">Research data management of laser-plasma science at HZDR</a>	<a href="#">Hans-Peter Schlenvoigt</a>
<a href="#">Towards spin-polarised electron beams from a laser-plasma accelerator</a>	<a href="#">Felicitas S. S.</a>	<a href="#">Update on PALLAS project</a>	<a href="#">Kevin S. S.</a>	<a href="#">Surrogate model for laser-plasma injector development</a>	<a href="#">Viacheslav Kubysky</a>
<a href="#">Measurement of the timing-jitter effects on a beam-driven plasma wakefield accelerator</a>	<a href="#">Franziska S. S.</a>	<a href="#">Laser Wakefield Accelerator Design for the Extreme Photonics Application</a>	<a href="#">Oliver S. S.</a>	<a href="#">Shadowgraphy of the plasma evolution around water micro-droplets</a>	<a href="#">Martin Beyer</a>
<a href="#">Experimental parameters for plasma wakefield acceleration in a narrow channel</a>	<a href="#">Valeria S. S.</a>	<a href="#">Status of the CLARA Facility at Daresbury Laboratory and exploitation</a>	<a href="#">Edward S. S.</a>	<a href="#">Burst shot of the self-injection dynamics of a laser wakefield accelerator</a>	<a href="#">Yu Zhao</a>
<a href="#">On maximizing LWFA by tailoring the plasma density</a>	<a href="#">Gael S. S.</a>	<a href="#">The Oxford Plasma Accelerator Laboratory</a>	<a href="#">David S. S.</a>	<a href="#">Internally self-consistent temperature diagnostic of hydrogen plasma</a>	<a href="#">Harry Jones</a>
<a href="#">Plasma density and ionisation degree evolution with long-term ion injection</a>	<a href="#">Judith S. S.</a>	<a href="#">Transverse instability in HALHF plasma stages</a>	<a href="#">Jian S. S.</a>	<a href="#">ON THE BETATRON RADIATION IN CYLINDRICALLY SYMMETRIC PLASMA</a>	<a href="#">Daniele Francescone</a>
<a href="#">Integrated beam physics for the laser wakefield accelerator project</a>	<a href="#">Sara S. S.</a>	<a href="#">Electron yield numerical studies for the EuAPS betatron source</a>	<a href="#">Andreas S. S.</a>	<a href="#">Laser-based plasma stabilization effect on a particle PWFA beam</a>	<a href="#">Fabio Villa</a>
<a href="#">Plasma temperature effects on beam quality</a>	<a href="#">Jian S. S.</a>	<a href="#">Beam current from downramp injection in electron-driven nonlinear plasma</a>	<a href="#">Antonio S. S.</a>	<a href="#">Parametric study of low-divergence X-rays from a laser-plasma-lens</a>	<a href="#">Cornelia Gustafsson</a>
<a href="#">Very High Energy Electrons with high charge and moderate energy spread</a>	<a href="#">Federica S. S.</a>	<a href="#">Phase Control of Nonlinear Breit-Wheeler Pair Creation</a>	<a href="#">Bernhard S. S.</a>	<a href="#">Average Current Enhancement of Laser-Plasma Accelerators</a>	<a href="#">Lorenzo Martelli</a>
<a href="#">Schemes of Electron Beam Loading in Blowout Regime in Plasma Wakefield Accelerators</a>	<a href="#">Diana S. S.</a>	<a href="#">Radioisotope production using a high-repetition-rate, laser-based proton beam</a>	<a href="#">Adriano S. S.</a>	<a href="#">Towards the first electron acceleration with an industrial Yb:YAG laser</a>	<a href="#">Bonaventura Farace</a>
<a href="#">Double pulse generator for AWAKE scalable discharge plasma source</a>	<a href="#">Nuria S. S.</a>	<a href="#">Superconducting undulator activities at the European XFEL</a>	<a href="#">Sara S. S.</a>	<a href="#">Compact beamline for laser-plasma electron characterization</a>	<a href="#">Coline Guyot</a>
<a href="#">Beam Dynamics Simulation of a High Brightness, High Repetition Rate Laser-Driven Plasma Accelerator</a>	<a href="#">Gill S. S.</a>	<a href="#">LASY: an open-source Python library for easy interfacing of laser-plasma accelerators</a>	<a href="#">Max S. S.</a>	<a href="#">Transport line design for laser wakefield accelerators</a>	<a href="#">Laury Batista</a>
		<a href="#">Bayesian optimization of the LUX laser-plasma accelerator</a>	<a href="#">Sören S. S.</a>	<a href="#">Exploring Wavelength Dependence in Laser Plasma Accelerators</a>	<a href="#">Annabel Gunn</a>
		<a href="#">A tale of three beams: towards stable and reproducible operation of a laser-plasma injector</a>	<a href="#">Giovanni S. S.</a>	<a href="#">Lattice Boltzmann Method applications: a characterization of thermal electron beams</a>	<a href="#">Gianmarco Parise</a>
		<a href="#">Machine Learning-based Data Analysis and Surrogate Modeling For Laser-Driven Plasma Accelerators</a>	<a href="#">Anna S. S.</a>	<a href="#">Fast laser field reconstruction method based on a Gerchberg-Saxton algorithm</a>	<a href="#">Ioaquin Moulanie</a>
		<a href="#">Megahertz repetition rate discharge plasma cells for plasma-based accelerators</a>	<a href="#">Greg S. S.</a>	<a href="#">A plasma-based acceleration method for heavier particles</a>	<a href="#">Chiara Badioli</a>
		<a href="#">Toward an automated tool for interferogram analysis for real time electron beam diagnostics</a>	<a href="#">Franz S. S.</a>	<a href="#">Betatron radiation from accelerated electrons: an analytical study</a>	<a href="#">Andrea Frazzitta</a>
		<a href="#">Reduced divergence of TNSA proton beams using a foil target and a laser-plasma injector</a>	<a href="#">Pete S. S.</a>	<a href="#">Stability of the Plasma-Modulated Plasma Accelerator (P-MoPA)</a>	<a href="#">Johannes van de Wetering</a>
				<a href="#">Undepleted Direct Laser Acceleration</a>	<a href="#">Ishay Pomerantz</a>
				<a href="#">The Plasma Injector for PETRA IV: Conceptual Design Report</a>	<a href="#">Alberto Martinez de la Ossa</a>
					<a href="#">Maxence Thevenet</a>
				<a href="#">Radiation generation in high power laser applications</a>	<a href="#">Simon Bohlen</a>



Roman Walczak (Oxford), Bernhard Hoyer (CEFA)



## *The impossible task:*

*Select three posters to represent the whole spectrum of work*

*International scientific poster selection board*

*==> a big thank you to the colleagues that helped with this task < ==*

Charlote Palmer  
Erik Adli  
Shaukat Khan  
Roman Walczak  
Bernhard Holzer



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# *Poster session*

*Sponsor for the three EAAC poster prizes*

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## *EAAC 2023 Poster Prize*

*Judita Beinortaitė*

Plasma density and ionisation degree evolution with long-term ion motion in a beam-driven plasma-wakefield accelerator



*Martin Beyer*



FRIEDRICH-SCHILLER-  
UNIVERSITÄT  
JENA

SHADOWGRAPHY OF THE PLASMA'S EVOLUTION AROUND WATER  
MICRO-DROPLETS IRRADIATED BY HIGH-POWER LASER PULSES

*Adrian Bembibre Fernandez*

Radioisotope production using a high-repetition-rate,  
laser-based proton source (ID 236)

Adrián Bembibre<sup>1,\*</sup>, J. Peñas<sup>1</sup>, J. I. Apiñaniz<sup>2</sup>, C. Guerrero<sup>3,4</sup>, J. L. Henares<sup>2</sup>, M. A. Millán-Callado<sup>3,4</sup>, P. Puyuelo-Valdes<sup>2</sup>, M. Seimetz<sup>5</sup>, J. Benlliure<sup>1</sup>, A. Alejo<sup>1</sup>