

Poster Session - Tuesday, 17 May, 15:30 h

- 1** Masoud Afshari **New Insights into the Acceleration of Gold Atoms by High Power Lasers**
- 2** Carolina Amoedo **Monitoring Gas Composition Evolution of Discharge Plasma Source with Optical Emission Spectroscopy, for the AWAKE Experiment**
- 3** Michael Backhouse **Measurements of the Effect of Density Ramps and Plasma Mirrors on 2GeV Laser Wakefield Accelerated Beams**
- 4** Chiara Badiali **Acceleration of Non-Relativistic Muons in Plasma Based Accelerators**
- 5** Judita Beinortaite **Signal Subtraction of Consecutive Electron Bunches from a High-Repetition-Rate Plasma-Wakefield Accelerator**
- 6** Michele Bergamaschi **Observation of Plasma Light at AWAKE**
- 7** Jonas Björklund Svensson **Future Plans for the Beam-Driven Plasma-Wakefield Experiment FLASHForward**
- 8** Frida Brogren **Prediction of Beam Energy Using Neural Networks and Beam Position Monitors**
- 9** Michael Bussmann **The Digitalization of Advanced Plasma Accelerator Experiments – A Perspective**
- 10** Richard D'Arcy **Recovery Time of a Plasma-Wakefield Accelerator**
- 11** Alexander Debus **PIConGPU -- High-Fidelity Plasma Simulations on Desktop Computers up to Exascale Compute Systems and a View on its Recent Applications**

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| 12 | Severin Diederichs | Modelling Positron Acceleration with HiPACE++ |
| 13 | Mike Downer | CO₂ Laser-Driven Wakefield Acceleration |
| 14 | Michael Ehret (online) | Enhancement of Tape Targets at VEGA |
| 15 | Bonaventura Farace | A Confined Continuous-Flow Plasma Source For High-Average-Power Laser Plasma Acceleration |
| 16 | John Farmer | Injection Tolerances for AWAKE Run 2c |
| 17 | Moritz Foerster | Hybrid LWFA-PWFA: A Stability and Beam-Quality Booster for Laser-Generated Electron Beams |
| 18 | Marcel Granetzny | Computation and Measurement of Helicon Wave Fields and Plasma Parameters in a Wakefield Accelerator Prototype |
| 19 | Cornelia Gustafsson | Shock-Assisted Ionisation Injection for Very High Energy Electron Radiotherapy |
| 20 | Andrea Hannasch | Compact Spectroscopy of keV to MeV X-rays from Laser Plasma Electron Accelerators |
| 21 | Arie Irman | DRACO Laser-Driven Electron source for secondary radiation generation and applications |
| 22 | Faran Irshad | Multi-Objective Multi-Fidelity Optimization of Laser Wakefield Accelerator |
| 23 | Soeren Jalas | Bayesian Optimisation of Laser Plasma Accelerators |

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| 24 | Advait Kanekar | Gas-Flow Simulations of a Discharge-Capillary Plasma Source for High-Repetition-Rate Plasma-Wakefield Operation |
| 25 | Manuel Kirchen | Surrogate Modelling of Laser-Plasma Acceleration |
| 26 | Arpad Lenart | Advanced Space Radiation Reproduction Using Laser Wakefield Accelerators |
| 27 | Erik Löfqvist | Design and Numerical Investigations of a Phase Locked Few Cycle Laser Accelerator |
| 28 | Antoine Maitrallain | Parametric Study of High-Energy Ring-Shaped Electron Beams from a Laser Wakefield Accelerator |
| 29 | Conor McAnespie | High-dose Femtosecond-Scale Gamma-Ray Beams for Radiobiological Applications |
| 30 | Orla McCusker | Diamond Detectors for Time of Flight Measurements in High Repetition Rate Laser-Plasma Interactions |
| 31 | Mathis Mewes | Hydrodynamics Simulations of Plasma Accelerator Sources |
| 32 | Pablo Israel Morales Guzman | PIC Simulations of the Self-Modulation of a Long Proton Bunch using two seeds: an Electron Bunch and a Density Cut |
| 33 | Mariana Moreira | Control of the Self-Modulation and Long-Bunch Hosing Instabilities with Plasma Frequency Detuning |
| 34 | Tatiana Nechaeva | Hosing of a Long Relativistic Particle Bunch Induced by an Electron Bunch |

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| 35 | Isabella Pagano | Source Size Analysis of Laser Plasma Acceleration Generated X-Rays |
| 36 | Felipe Peña | Progress Toward High Overall Energy Efficiency in a Beam-Driven Plasma-Wakefield Accelerator Stage |
| 37 | Christopher Pieronek | Ionization Injection in a Laser-Heated Capillary Discharge Waveguide |
| 38 | Kristjan Poder | Polarised Electron Beams from Plasmas |
| 39 | Dennis Proft | Plasma-Based Accelerator as Possible Replacement of a 26 MeV Linear Accelerator as Pre-Injector for a Synchrotron |
| 40 | Jan Pucek | Competition Between Electron Seeding and Relativistic Ionization Front Seeding |
| 41 | Alexander Pukhov | Positron Acceleration via Laser-Augmented Blowouts in Two-Column Plasma Structures |
| 42 | Susanne Schöbel | Optical Probing of Plasma Waves in a Hybrid LWFA-PWFA Stage |
| 43 | Sarah Schröder | Stability Studies in a Plasma-Wakefield Accelerator |
| 44 | Rob Shalloo | Automation and Control of Plasma Accelerators Using Bayesian Optimisation |
| 45 | Xiaofei Shen | Electron Acceleration by Surface Plasma Wave at Overdense Plasma-Vacuum Interface |
| 46 | Thales Silva | Two Schemes for Plasma-Based Positron Acceleration: Thin Hollow Channels and Non-Neutral Fireball Beams |

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| 47 | Alexander Sinn | Improving Performance and Numerics of the Quasi-static PIC Code HiPACE++ |
| 48 | Michael Switka | Studies for an LPWA-Based Injector of Polarized Electrons for the ELSA Facility |
| 49 | Davide Terzani | High-Quality Electron Beams from Two-Color Ionization Injection at BELLA |
| 50 | Nuno Torrado | Double Pulse Generator for Long Tube Plasma Discharges |
| 51 | Livio Verra | Electron Bunch Seeding of the Self-Modulation Instability in Plasma |
| 52 | Katinka von Grafenstein | Laser Wakefield Acceleration to GeV Electron Energies |
| 53 | Nils Weisse | Spectrally Resolved Wavefront Analysis of the ATLAS 3000 Petawatt Laser |
| 54 | Camilla Willim | Proton Acceleration with Shaped Lasers and Double-Layer Targets |
| 55 | Anna Willmann | Surrogate Modelling for Boosting Research of Electron Acceleration Processes |
| 56 | Michael Zepp | High Time Resolution Particle Balance Measurements in AWAKE Helicon Plasmas |
| 57 | Giovanni Zevi Della Porta | e4AWAKE – Next Generation Electron Source for the Advanced Wakefield (AWAKE) Proton-Driven Plasma Acceleration Experiment at CERN |