

Programm der Sitzung

13.-16. Jan. 2025



LPA Special Workshop on Intelligent Systems

Poster session

Department of Physics, University of Oxford
Parks Rd, Oxford OX1 3PU, UK

Mo., 13. Januar

18:00

Poster session

Sitzung | **Ort:** Department of Physics, University of Oxford, Parks Rd, Oxford OX1 3PU, UK

18:00–18:20 Uhr

The Application of Artificial Intelligence Technology in Compact Laser Plasma Accelerator at Peking University

Sprecher

Prof. Ke Chen

18:00–18:20 Uhr

Numerical optimization of quantum vacuum signals

Sprecher

Maksim Valialshchikov

18:00–18:20 Uhr

Bivoj/Dipole100 laser system as a potential pump source for high-energy ultrafast laser systems

Sprecher

Jan Pilar, Dr. Martin Divoky, Herr Tomas Paliesek

18:00–18:20 Uhr

Laser-driven Ion Acceleration at the Centre for Advanced Laser Applications

Sprecher

Michael Bachhammer

18:00–18:20 Uhr

Multi-Objective Bayesian Optimization for Laser-Plasma Acceleration:

Sprecher

Semion TCHETOVSKY

18:20–18:40 Uhr

Towards automated stable operation of a cryogenic hydrogen jet for laser-driven ion acceleration

Sprecher

Maximilian Müller

18:20–18:40 Uhr

Automation and stabilization of the front-end at PHELIX

Sprecher

Yannik Zobus

18:20–18:40 Uhr

Implementation of RDMA-based system for High-throughput Image Transmission in Laser Plasma Accelerator

Sprecher

Dr. min Li

18:20–18:40 Uhr

Launching the Adaptive Laser Architecture Development and INtegration (ALADIN) Program - A Preview

Sprecher

Jonas Benjamin Ohland

18:20–18:40 Uhr

Optimizing Energy Efficiency and Environmental Control in Modern Scientific Facilities Utilizing Machine Learning and Digital Twin Technology**Sprecher**

Davorin Peceli

18:40–19:00 Uhr

Deconvolution of Arbitrary Spectrum from Linear Absorption Spectrometers measurements using Machine Learning**Sprecher**

Anandaeaswaran Brainthra

18:40–19:00 Uhr

HELPMI: towards a standard for Laser and Plasma experiment data**Sprecher**

Hans-Peter Schlenvoigt

18:40–19:00 Uhr

All Optical Emittance Characterization of Laser-Accelerated Electron Beams**Sprecher**

Alperen Kozan

18:40–19:00 Uhr

Realtime diagnostics for source-to-sample characterization of laser-driven proton beams towards automated accelerator and beamline operation for radiobiological applications**Sprecher**

Joshua Schilz

18:40–19:00 Uhr

Enroute to Automated Optimization of Laser-Ion Acceleration**Sprecher**

Florian Schweiger

19:00–19:20 Uhr

Few-Shot Fourier Transform Spectroscopy and Application to Spatiospectral Sensors**Sprecher**

Jakob Maria Schröder

19:00–19:20 Uhr

Systematic study of the fs laser-driven target surface electron (TSE) beam and its applicative explorations**Sprecher**

Prof. Jingyi Mao

19:00–19:20 Uhr

Advanced Controls and Machine Learning at FLASHForward**Sprecher**

Lewis Boulton

19:00-19:20 Uhr

Leveraging Bayesian inference in single-shot measurements of spatio-temporal couplings

Sprecher

Jannik Maximilian Esslinger

19:30