

LPA Special Workshop on Intelligent Systems

Montag, 13. Januar 2025

Plenary: Introduction (14:00 - 15:30)

time	[id] title	presenter
14:00	[62] Workshop Introduction	DÖPP, Andreas
14:30	[60] Ultra-Powerful Lasers at High Repetition Rate	THOMAS, Alec
15:00	[34] Technology for High-Repetition-Rate Intense Laser Laboratories (THRILL)	BAGNOUD, Vincent

Plenary: Plenary (16:00 - 17:30)

time	[id] title	presenter
16:00	[58] Single-Shot Spatio-Temporal Vector Field Measurements of Petawatt Laser Pulses	HOWARD, Sunny
16:45	[59] Training a surrogate model of a ZEUS experiment from messy data using LLMs and ConvNets	JOGLEKAR, Archis

Dienstag, 14. Januar 2025

Plenary: Bayesian Optimization (14:00 - 15:30)

-Vorsitzende der Sitzung: Rob Shaloo

time	[id] title	presenter
14:00	[52] Bayesian optimization algorithms for accelerator phy	ROUSSEL, Ryan

Plenary: ML at Large Laser Labs (16:00 - 17:30)

-Vorsitzende der Sitzung: Kevin Cassou

time	[id] title	presenter
16:00	[7] Advanced Machine Learning and Intelligent Control Systems for Optimizing Laser Plasma Accelerators at the BELLA Center	JAIN, Chetanya
16:45	[57] ML-assisted control of plasma accelerators at DESY	MAIER, Andreas

Mittwoch, 15. Januar 2025

Plenary: Plenary (14:00 - 15:30)

time	[id] title	presenter
14:00	[54] Bayesian optimization of TNSA ion yield through laser spectral dispersion	HILL, Matthew
14:45	[55] Surrogate Modeling and Neural Solver in Plasma Physics	KELLING, Jeffrey

Plenary: Plenary (16:00 - 16:45)

time	[id] title	presenter
16:00	[56] Machine Learning Applications at ISIS	BAKER, Kathryn

Donnerstag, 16. Januar 2025

Plenary: Plenary (14:00 - 15:30)

time	[id] title	presenter
14:00	[47] Active wavefront stabilization of the Apollon multi-PW laser system: first results and perspectives	Dr. PAPADOPOULOS, Dimitrios
14:30	[53] Flat wavefronts falling from the sky: astronomical adaptive optics at the 8.2 meter Subaru Telescope	DEO, Vincent
15:00	[48] Automated Alignment of Beam Lines using Reinforcement Learning	Dr. VON DER LEYEN, Marko