

Friday 14 November

09:30

Session 1: Session 1

Session | Location: DESY, Flash Seminar Room

09:30-09:40 Welcome

Speaker

Philipp Heuser

09:40-10:05 Setting the stage: User's intro to LLMs

Speaker

Henry Day-Hall

10:05-10:50

Al in Climate Research - How LLMs and its Platforms make a Difference

Speaker

Dr Christopher Kadow

10:50-11:00

Workshop idea: "How to use AI tools to make your research more efficient"

Speaker

Dwayne Spiteri

11:00

11:15

Session 1: Session 2

Session | Location: DESY, Flash Seminar Room

11:15-11:25 Al Copilot for FEL Experiments at European XFEL

Speaker

Mr Mahmoud Ajami

11:25-11:35 LLM-Powered Issue Analysis for High-Availability Laser Operations

Speakers

Afshin Karimi, Henrik Tuennermann

11:35-11:45 Agents of Discovery

Speaker

Tim Lukas

11:45-11:55

The Helmholtz Model Zoo: Enabling Al Model Sharing and Inference in the **Helmholtz Cloud**

Speaker

Hans William Werners

11:55-12:05

Early experiences with agentic generative AI for EuXFEL operations support

Speakers

Florian Sohn, Steffen Hauf

12:05-12:15

Al-assisted retrieval and visualization of control-system data from the InfluxDB time-series database at the European XFEL

Speaker

Florian Sohn

12:45

Session 1: Session 3

Session | Location: DESY, Flash Seminar Room

12:45-12:55 Automating beam alignment at the European XFEL

Speaker

Sarlota Birnsteinova

12:55-13:05 Neural networks for FEL diffraction image separation

Speaker

Nikita Morozov

13:05-13:15

A Differentiable Physics Model for Automated Inverse Design in Optics

Speaker

Henrik Tuennermann

13:15-13:25

Differentiable Physics-Based Feedback for Adaptive Laser Pulse Shaping

Speaker

Denis Ilia

13:25-13:35 CaloClouds3; Diffusion and Flows

Speaker

Henry Day-Hall

13:35-13:45

CaloHadronic: a diffusion model for the generation of hadronic showers

Speaker

Martina Mozzanica

13:45-13:55 PanShower: One model for all calorimeter showers

Speaker

Thorsten Buss

13:55-14:05 OmniJet-α for Calorimeters

Speaker

Henning Rose

14:05-14:15

Cross-Geometry Transfer Learning in Fast Electromagnetic Shower Simulation

Speaker

Lorenzo Valente

14:15-14:25

Observable Optimization for Precision Theory: Machine Learning Energy Correlators

Speaker
Arindam Sonali Amar Bhattacharya

14:25-14:35 FSR recovery with a GNN-based supervised tagger

Speaker
Max Fuste Costa

14:35