

Glühwein Workshop 2024 @ KIT

Monday, December 16, 2024

Presentations (10:00 AM - 11:40 AM)

time	[id] title	presenter
10:00 AM	[7] Welcome	KLUTE, Markus
10:20 AM	[8] Universal New Physics Latent Space	VON SCHWARTZ, Tore
11:00 AM	[9] Anomaly detection with CMS	YEDE, Chitrakshree

Presentations (12:10 PM - 12:50 PM)

time	[id] title	presenter
12:10 PM	[4] Using machine learning to search for scalar lepton partners at the LHC	STENGEL, Patrick

Presentations (1:50 PM - 3:50 PM)

time	[id] title	presenter
1:50 PM	[5] AIDO: A Software Package for the Optimization of Continuous and Discrete Detectorparameters using Surrogate Models	SCHMIDT, Kylian
2:30 PM	[6] ML-enhanced optimal detector design with mutual information	WOZNIAK, Kinga Anna
3:10 PM	[23] The Landscape of Unfolding with Machine Learning	HUETSCH, Nathan

Tuesday, December 17, 2024

Presentations (9:00 AM - 10:20 AM)

time	[id] title	presenter
9:00 AM	[2] End-to-End Multi-Track Reconstruction using Graph Neural Networks at Belle II	REUTER, Lea
9:40 AM	[3] Real-time clustering with GNNs - first operational experience	HAIDE, Isabel NEU, Marc

Presentations (10:50 AM - 12:50 PM)

time	[id] title	presenter
10:50 AM	[10] What theorists can teach experimentalists about calorimeter calibration	VOGEL, Lorenz
11:30 AM	[11] Generative Models for Detector Simulation	KORCARI, William
12:10 PM	[12] Calorimeter Simulation with Foundation Models	ROSE, Henning

Presentations (2:20 PM - 3:40 PM)

time	[id] title	presenter
2:20 PM	[13] The fundamental limit of jet tagging	MÜCK, Alexander
3:00 PM	[14] How to Unfold Top Decays	PALACIOS-SCHWEIZER, Sofia

Presentations (4:20 PM - 5:40 PM)

time	[id] title	presenter
4:20 PM	[15] Applying 1-Bit Networks to High Energy Physics	WANG, Daohan
5:00 PM	[16] Accurate and robust methods for direct background estimation in resonant anomaly detection	HEIN, Marie

Wednesday, December 18, 2024

Presentations (9:00 AM - 10:20 AM)

time	[id] title	presenter
9:00 AM	[22] NN-Taylor Coefficient Analyse (TCA)	SOWA, Lars
9:40 AM	[21] Systematic-aware training	MONSCH, Artur

Presentations (10:50 AM - 1:00 PM)

time	[id] title	presenter
10:50 AM	[17] Methods to Infer the Composition of Ultra-High Energy Cosmic Rays	BORTOLATO, Blaž
11:30 AM	[19] Lorentz-Equivariant Geometric Algebra Transformers	SPINNER, Jonas
12:10 PM	[20] Farewell	KLUTE, Markus