Session Program

Dec 16 - 18, 2024

Glühwein Workshop 2024 @ KIT Presentations

Mon, December 16

10:00 AM	Presentations Session Location:
11:40 AM 12:10 PM 12:50 PM 1:50 PM	10:00-10:20 Welcome Speaker Markus Klute
	10:20-11:00 Universal New Physics Latent Space Speaker Tore von Schwartz
	11:00-11:40 Anomaly detection with CMS Speaker Chitrakshee Yede
	Presentations Session Location:
	12:10-12:50 Using machine learning to search for scalar lepton partners at the LHC Speaker Patrick Stengel
	Presentations Session Location:
	13:50-14:30 AIDO: A Software Package for the Optimization of Continuous and Discrete Detectorparameters using Surrogate Models Speaker Kylian Schmidt
	14:30 - 15:10 ML-enhanced optimal detector design with mutual information Speaker Kinga Anna Wozniak
	15:10-15:50 The Landscape of Unfolding with Machine Learning Speaker Nathan Huetsch

Tue, December 17

9:00 AM	Presentations
	Session Location:
	09:00-09:40 End-to-End Multi-Track Reconstruction using Graph Neural Networks at Belle II Speaker
	Lea Reuter
	09:40-10:20 Real-time clustering with GNNs - first operational experience Speakers
10:20 AM	Isabel Haide, Marc Neu
10:50 AM	Presentations Session Location:
	10:50 - 11:30 What theorists can teach experimentalists about calorimeter calibration
	Speaker Lorenz Vogel
	11:30-12:10 Generative Models for Detector Simulation
	Speaker William Korcari
	12:10-12:50 Calorimeter Simulation with Foundation Models
12:50 PM	Speaker Henning Rose
2:20 PM	Presentations Session Location:
	14:20 - 15:00 The fundamental limit of jet tagging
	Speaker Alexander Mück
	15:00 - 15:40 How to Unfold Top Decays
3:40 PM 4:20 PM	Speaker Sofia Palacios-Schweizer
	Presentations Session Location:
	16:20-17:00 Applying 1-Bit Networks to High Energy Physics Speaker Daohan Wang

17:00 - 17:40

Accurate and robust methods for direct background estimation in resonant anomaly detection

Speaker

5:40 PM

Wed, December 18

9:00 AM 10:20 AM 10:50 AM	Presentation	ONS tion:			
	09:00 - 09:40	NN-Taylor Coefficient Analyse (TCA)			
	Speaker Lars Sowa				
	09:40 - 10:20	Systematic-aware training			
	Speaker Artur Monsch				
	Presentations Session Location:				
	10:50 - 11:30	Methods to Infer the Composition of Ultra-High Energy Cosmic Rays			
	Speaker Blaž Bortolato				
	11:30 - 12:10	Lorentz-Equivariant Geometric Algebra Transformers			
	Speaker Jonas Spinner				
	12:10 - 12:20	Farewell			
1:00 PM	Speaker Markus Klute				