Session Program

Sep 12 - 16, 2022

Conceptual Advances in Deep Learning for Research on Universe and Matter

Participant Contributions

Hotel zur Post Hauptstraße 8-10, 51674 Wiehl

Tue, September 13

0 AM	Participant Contributions Session Location: Hotel zur Post, Hauptstraße 8-10, 51674 Wiehl
	09:00-09:20 Reinforced Jet-Parton Assignment for Particle Physics Analyses Speaker Dennis Noll
	09:20-09:40 Open Neural Network Exchange Format - An Introduction Speaker Dr Andreas Fehlner
	09:40-10:00 CosmicNet II: Emulating extended cosmologies with efficient and accurate neural networks
	Speaker Sven Günther
	10:00-10:20 The State of the Art of Deep-Learning-Based Event Classification and Reconstruction for IACTs
AM	Speaker Dr Samuel Spencer

Wed, September 14

2:00 PM	Participant Contributions Session Location: Hotel zur Post, Hauptstraße 8-10, 51674 Wiehl
	14:00 - 14:20 Bayesian neural networks for particle identification
	Speaker Prof. Johannes Erdmann
	14:20-14:40 Boosting mono-jet searches with model agnostic deep learning
	Speaker Thorben Finke
	14:40 - 15:00
	Super-resolution of photon calorimeter images using generative adversarial networks
3:30 PM	Speaker Florian Mausolf
4:30 PM	Participant Contributions Session Location: Hotel zur Post, Hauptstraße 8-10, 51674 Wiehl
	16:30-16:50 An ML approach to the classification of phase transitions in many flavor QCD
	Speaker Marius Neumann
	16:50-17:10 A Machine Learning Approach to Searching Dark Matter Subhalos in Fermi-LAT Sources
	Speaker Kathrin Nippel
	17:10-17:30 Virtual Patho-Histology at the GINIX 3D X-ray Microscope
6:00 PM	Speaker Dr Markus Osterhoff

Thu, September 15

9:00 AM 10:30 AM	Participant Contributions Session Location: Hotel zur Post, Hauptstraße 8-10, 51674 Wiehl
	09:00 - 09:20 Deep Learning-based Imaging in Radio Interferometry
	Speaker Stefan Fröse
	09:20-09:40 Information Field Theory Bayesian Inference for Fields
	Speaker Jakob Roth
	09:40 - 10:00
	Interpolating Calibration Data on the Sphere with Information Field Theory
	Speaker Mr Maximilian Straub