

AI and Quantum Information for Particle Physics

Wednesday, 15 November 2023

Machine Learning (14:00 - 16:30)

-Conveners: Lukas Heinrich

time	[id] title	presenter
14:00	[9] Constructing Novel Nonparametric Estimators for f-divergences and Its Applications to High-energy Physics	Dr NOH, Yung-Kyun
15:00	Coffee & Discussion	
15:30	[10] Scalar and Grassmann Neural Network Field Theories	Dr MAITI, Anindita

Thursday, 16 November 2023

Machine Learning (10:00 - 12:30)

-Conveners: Anindita Maiti

time	[id] title	presenter
10:00	[7] Towards Building Large HEP Models with Self-Supervised Learning	Dr KAGAN, Michael A.
11:00	Coffee & Discussion	
11:30	[8] The Vision of End-to-End ML models in HEP	Dr HEINRICH, Lukas

Machine Learning (14:00 - 15:00)

-Conveners: Michael A. Kagan

time	[id] title	presenter
14:00	[27] Why autoencoders fail at anomaly detection and what we can do about it	Dr YOON, Sangwoong

Friday, 17 November 2023

Machine Learning (10:00 - 11:50)

-Conveners: **Minho SON**

time	[id] title	presenter
10:00	[22] Mixture Density Network for Neutrino Reconstruction in Collider Physics	Dr YANG, SeungJin
10:40	[23] Exploring local and global feature integration in Multi-Model Deep Neural Networks	Ms BAN, Kayoung
11:20	Coffee & Discussion	