AI+HEP in East Asia

Tuesday, 25 February 2025

Afternoon Talks (13:30 - 17:00)

-**Conveners: Huilin Qu**

time	[id] title	presenter
13:30	[2] Overview of Machine Learning applications in JUNO	LUO, Wuming
14:00	[13] New Potentials in Boosted-Jet Regimes through Inclusive Jet Model Pre-Training	GAO, Leyun
14:30	Coffee Break	
15:00	[14] From boosted H→WW* taggers to inclusively pre-trained jet models at the LHC	FU, Dawei
15:30	[27] Searching for Long-lived Particles at Future Lepton Colliders Using Deep Learning Techniques	CHEN, Xiang
16:00	[30] Probing Light Fermiophobic Higgs in Type-I 2HDM with CNN-Based Diphoton Jet Substructure Analysis	LEE, Soojin

Wednesday, 26 February 2025

Afternoon Talks (13:30 - 16:30)

-**Conveners: Cheng-Wei Chiang**

time	[id] title	presenter
13:30	[24] A Tree-to-Token Paradigm for Jet Physics: Bridging High-Energy Phenomenology and Language Modeling	MORINAGA, Masahiro
14:30	[25] LLM-based AI assistant for HEP data analysis	LI, Ke
15:00	Coffee Break	
15:30	[29] Grand Design of the Collider Space: How can AI and human work together to mine more physics from the LHC data?	CAI, Tianji

Thursday, 27 February 2025

Afternoon Talks (13:30 - 16:00)

  -Conveners: Manqi Ruan

time	[id] title	presenter
13:30	[15] Physics-Conditioned Diffusion Models for Lattice Gauge Field Theory	ZHU, Qianteng
14:00	[28] AI with Hamiltonian Mechanics: From Predictions to Understanding	KIM, Tae-Geun
14:30	Coffee Break	
15:00	[3] LeStrat-Net: machine learning in Lebesgue style stratified Monte Carlo	RAMOS, Raymundo
15:30	[12] AI assist IBP reduction	SONG, Zhuo-Yang