

Wed, June 4

10:30 AM Al for Hadron Spectroscopy at JLab Session | Location: Jefferson Lab, CC F224-225 & Zoom, 12000 Jefferson Ave. Newport News, VA 23606 10:30 - 11:00 Summary talk of NPTwins 2024 Speaker Yaohang Li 11:00 - 11:30 EAIRA: Evaluation of LLMs/RLMs as Research Assistants Speaker Franck Cappello 11:30 - 12:00 Extracting \$x\$-Dependent GPDs with Normalizing Flow Speaker Zhite Yu 12:00 PM 2:00 PM Al for Hadron Spectroscopy at JLab Session | Location: Jefferson Lab, CC F224-225 & Zoom, 12000 Jefferson Ave. Newport News, VA 23606 14:00 - 14:30 Al Applications in Hadronic Physics Speaker Geoffrey Fox 14:30 - 15:00 Hadron spectroscopy analyses with CLAS and CLAS12 Raffaella De Vita 15:00 - 15:30 Al for Unfolding Speaker Benjamin Nachman 15:30 - 16:00 Amplitude-based analyses at GlueX Speaker Mr Boris Grube

4:00 PM

Thu, June 5

9:00 AM Al for Hadron Spectroscopy at JLab Session | Location: Jefferson Lab, CC F224-225 & Zoom, 12000 Jefferson Ave. Newport News, VA 23606 09:00 - 09:30 Amplitude extraction with generative Al Speaker Gloria Montana 09:30 - 10:00 Generative-AI for smearing and acceptance unfolding in hadron physics Speaker Tareq Alghamdi 10:00 - 10:30 A Modular Software Stack for A(i)DAPT Speaker Trevor Reed 10:30 AM 11:00 AM Al for Hadron Spectroscopy at JLab Session | Location: Jefferson Lab, CC F224-225 & Zoom, 12000 Jefferson Ave. Newport News, VA 23606 11:00 - 11:30 Diffusion Models as Surrogate Event Generators for QCD Analysis Speaker Jitao Xu 11:30 - 12:00 Moments of two-pion photoproduction and diffusion models **Speakers** Giorgio Foti, Lukasz Bibrzycki 12:00 - 12:30 Autoencoders for Partial Wave Analysis **Speaker** Trevor Reed 12:30 PM 2:00 PM Al for Hadron Spectroscopy at JLab Session | Location: Jefferson Lab, CC F224-225 & Zoom, 12000 Jefferson Ave. Newport News, VA 23606 14:00 - 14:30 Towards simulation based inference of hadron structure Speaker Nobuo Sato 14:30 - 15:00 Neural Networks for QCD Speaker Dr Wyatt Smith 15:00 - 15:30 Variational Neural Network Approach to QFT in the Field Basis: Results from Klein-**Gordon Theory**

Speaker Kevin Braga 15:30 - 16:00 **Applications of Density Ratio Estimation in Experimental Hadron Spectroscopy** Speaker Richard Tyson

4:00 PM