4th ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators

Thursday, March 7, 2024

Methods: Methods 1 **(5:40 PM - 6:00 PM)**

  -Conveners: Annika Eichler; Annika Eichler; Kishansingh Rajput; Jason St. John

time	[id] title	presenter
5:40 PM	[26] AI/ML Coupling & Surrogates in BLAST Accelerator Modeling Codes	Dr HUEBL, Axel

Friday, March 8, 2024

Methods: Methods **(9:00 AM - 10:40 AM)**

  -Conveners: Annika Eichler; Annika Eichler; Kishansingh Rajput; Jason St. John

time	[id] title	presenter
9:00 AM	[82] Experience with ML-based Model Calibration Methods for Accelerator Physics Simulations	CROPP, Frederick
9:20 AM	[44] ML methods for noise reduction in industrial LLRF systems	HENDERSON, Morgan
9:40 AM	[47] Leveraging Differential Algebraic Methods for Enhanced Beam Dynamics Simulation with Machine Learning	PARK, Chong Shik
10:00 AM	[49] Cheetah – A High-speed Differentiable Beam Dynamics Simulation for Machine Learning Applications	KAISER, Jan
10:20 AM	[87] AI-assisted design of final cooling system for a muon collider	FOL, Elena