DRAFT AGENDA : Day 1: 2025 NP AI-ML PI Exchange Meeting, Wednesday, November 19, Virtual

Zoom link: https://science-doe.zoomgov.com/j/1616834431?pwd=HLGR3bloD7mAa5iUeHQktXZtkh2sBL.1

Meeting ID: 161 683 4431

Passcode: Q^cK1=B.

#	Time (E.S.T)	Dur. (min)	Principal Investigator	Institution	Collaboration	FOA Year	R&D Area	Presentation Title	Speaker(s)
	11:00 AM	5	-	DOE NP			-	Introductory Remarks	NP DD
	11:05 AM	35	-	DOE NP			-	NP supported AI/ML	Farkhondeh
1	11:40 AM	35	Liu, Ming Xiong	LANL	Yes	FY2023	Detectors	Intelligent Experiments Through Real-time AI: Fast Data Processing and Autonomous Detector Control for sPHENIX and	Liu
2	12:15 PM	35	Wrede, Christopher	MSU	No	FY2023	Detectors	Machine Learning for Time Projection Chambers at FRIB	Wrede
	12:50 PM	15	Break						
3	1:05 PM	35	Jacobs, Peter	LBNL	Yes	FY2023	Experiment AI	New approaches to Bayesian uncertainty quantification for Nuclear Science	Jacobs
4	1:40 PM	35	Carpenter, Michael	ANL	No	FY21-23	Experiment, LE	Modern Data Analytics for the Large Gamma-Ray Spectrometers: GRETINA/GRETA and Gammasphere via Machine Learning and Optimization	Carpenter
	2:15 PM	40	Lunch Break						
5	2:55 PM	35	Redpath, Thomas	VSU	No	FY2023	Experiment, LE	Neural network classifier for analyzing measurements of fast neutrons for invariant mass spectroscopy	Redpath
6	3:30 PM	35	Liuti, Simonetta	UVA	Yes	FY2023	Theory, LQCD	EXCLAIM - EXCLusives via Artificial Intelligence and Machine learning	Liuti
	4:05 PM	15	Break						
7	4:20 PM	35	Lee, Dean	MSU	Yes	FY2023	Theory ML	STREAMLINE Collaboration: Machine Learning for Nuclear Many-Body Systems	Lee
8	4:55 PM	35	Ostroumov, Peter Scheinker, Alexander	MSU	Yes	FY2023	Accelerator	Online Autonomous Tuning of the FRIB Accelerator Using Machine Learning	Ostroumov
	5:30 PM		Adjourn	End of Day 1					

DRAFT AGENDA : Day 2: 2025 NP AI-ML PI Exchange Meeting, Thursday, November 20, Virtual

Zoom link: https://science-doe.zoomgov.com/j/1616834431?pwd=HLGR3bloD7mAa5iUeHQktXZtkh2sBL.1

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#	Time (E.S.T)	Dur. (min)	Principal Investigator	Institution	Collaboration		R&D Area	Presentation Title	Speaker(s)
9	11:00 AM	35	Mustapha, Brahim	ANL	Yes	FY2023	Accelerator	Use of artificial intelligence to optimize accelerator operations and improve machine performance	Mustapha/Santiago
10	11:35 AM	35	Crawford, Heather	LBNL	No	FY21-23	Accelerator	Machine Learning Optimization: VENUS & GRETA	Crawford/Todd
	12:10 PM	15	Break						
12	12:25 PM	35	Gruszko, Julieta	UNC	No	FY21-23	Detector, FS	Interpretable Machine Learning for Germanium-Based Neutrinoless Double Beta Decay Searches	Gruszko
13	1:00 PM	35	Fanelli, Cristiano	W&M	Yes	FY2023	Detectors	A Scalable and Distributed AI-assisted detector design for the EIC	Fanelli
	1:35 PM	50	Lunch Break						
14	2:25 PM	35	Arratia, Miguel	UC, Riverside	Yes	FY2021	Detectors	AI-driven detector design for the EIC	Arratia
15	3:00 PM	35	Lawrence, David	TJNAF	No	FY2023	Polarization	AI/ML Optimized Polarization	Lawrence
16	3:35 PM	35	Tennant, Christopher	TJNAF	No	FY2023	Accelerator	Graph Learning for Efficient and Explainable Operation of Particle Accelerators	Tennant
	4:10 PM	15	Break						
17	4:25 PM	35	Hoffstaetter, Georg	BNL/Cornell	Yes	FY2023	Accelerator	Beam polarization increase in the BNL hadron injectors through physics-informed Bayesian Learning	Hoffstaetter
	5:00 PM	5	Closing Remarks					Closing Remarks	
	5:05 PM		Adjourn						