



# HAMLET-PHYSICS 2024 Conference/Workshop

## Monday, 19 August 2024

### Plenaries & Keynotes (09:30 - 12:25)

time	[id] title	presenter
09:30	[2] Intro	
09:50	[1] Keynote - Tess Smidt (MIT)	
10:45	[5] Coffee	
11:00	[21] GraphNeT 2.0	ØRSØE, Rasmus
11:30	[31] Enhancing Neutron Scattering Experimentation: A Data Science and Machine Learning Approach to Predict Background Scattering	KARAKOSTA, Petroula
12:00	[6] Talk	

### Plenaries & Keynotes (13:30 - 16:00)

time	[id] title	presenter
13:30	[10] Keynote 2 - Savannah Thais (Columbia)	
14:25	[12] Coffee	
14:45	[26] Identifying dwarf AGN candidates through novel machine learning techniques	KRISTENSEN, Mikkel Theiss
15:10	[25] Data challenges for black-hole image reconstruction and feature identification	CARBALLO-RUBIO, Raúl
15:35	[36] Decoding the Early Universe: Machine Learning Applications in CMB Analysis	KARDUM, Leonora

# Tuesday, 20 August 2024

## Plenaries & Keynotes (09:00 - 12:00)

time	[id] title	presenter
09:00	[16] Intro	
09:15	[15] Keynote 3 - Thea Aarrestad (ETH Zurich)	
10:05	[17] Coffee	
10:25	[33] Exploring Bottomonium Behaviour at Finite Temperatures: Machine Learning and Lattice QCD	JAEGER, Benjamin
10:50	[34] Advancing Ultra-High Energy Neutrino Astronomy through Deep Learning and Differential Programming	GLASER, Christian
11:20	[7] Talk	
11:45	[20] Short Talk	

## Plenaries & Keynotes (14:00 - 15:00)

time	[id] title	presenter
14:00	[23] Development of innovative methods for fission trigger construction	PERTILLE RITTER, Brigitte
14:30	[37] AI for fusion, plasma simulations, and experiment control	AGNELLO, Adriano

# Wednesday, 21 August 2024

## Plenaries & Keynotes (10:00 - 12:00)

time	[id] title	presenter
10:00	[35] Symbolic regression for Science: challenges and opportunities.	LUCANTONIO, Alessandro
10:20	[30] cp3-bench: A tool for benchmarking symbolic regression algorithms tested with cosmology	THING, Mattias Ermakov
10:40	[28] Discovering interpretable physical models using Symbolic Regression and Discrete Exterior Calculus	MANTI, Simone
11:00	Coffee	
11:20	[32] Transforming the Bootstrap: Using Transformers to Compute Scattering Amplitudes in Planar $N = 4$ Super Yang-Mills Theory	Dr WILHELM, Matthias
11:40	[38] Uncertainty estimation in magnetic field inference	POLLOK, Stefan

## Plenaries & Keynotes (13:00 - 15:30)

time	[id] title	presenter
13:00	[27] Bayesian optimisation of ocean models	MROZOWSKA, Marta
13:25	[24] Bayesian Model Selection of Inflationary Models Using the CONNECT Emulation Framework	SØRENSEN, Camilla Theresia Grøn
14:05	[11] Talk	
14:30	[13] Workshop Summary & Outro	
15:00	Coffee & Beer	