Session Program

19–21 Aug 2024

HAMLET
How to Apply Machine Learning to Experimental & Theoretical PHYSICS

August 19 - 21, 2024
Copenhagen, Denmark

HAMLET-PHYSICS 2024 Conference/Workshop

Parallel

Lundbeck Auditorium

Tuesday 20 August

13:00

Parallel

Session | **Location:** Lundbeck Auditorium

13:00–13:15 **Development of innovative methods for fission trigger construction**

Speaker
Brigitte PERTILLE RITTER

13:15–13:35

Enhancing Neutron Scattering Experimentation: A Data Science and Machine Learning Approach to Predict Background Scattering

Speaker
Petroula Karakosta

13:35–13:55

Bayesian Model Selection of Inflationary Models Using the CONNECT Emulation Framework

Speaker
Camilla Theresia Grøn Sørensen

13:55–14:15

Identifying dwarf AGN candidates through novel machine learning techniques

Speaker
Mikkel Theiss Kristensen

14:15–14:35 **Chatbots for astrophysicists**

Speaker
Simon Albrecht

14:35–14:55

Development of a Neural-Network-Based Event Reconstruction for the RadMap Telescope

Speaker
Luise Meyer-Hetling

14:55

Wednesday 21 August

10:50

Parallel: Parallel - 2

Session | **Location:** HC Ørsted Building, Auditorium 4, Universitetsparken 5, 2100 København

10:50–11:10 **RECLAIM-DAQ: A framework for Reclaiming the DAQ for Computing**

Speaker
Carlos Abellan Beteta

11:10–11:30

Deep Learning-Based Data Processing in Large-Sized Telescopes of the Cherenkov Telescope Array: FPGA Implementation and Comparison with GPUs

Speaker
Iaroslava Bezshyiko

11:30–11:50

GNN Classification of Muon- and Electron Neutrino Events for the ESSnuSB+ Near WC Detector

Speaker
Kaare Endrup Iversen

11:50

10:50

Parallel: Parallel - 3

Session | **Location:** HC Ørsted Buliding, Auditorium 2, Universitetsparken 5, 2100 København

10:50–11:10

Exploring the Impact of Pseudospectra on the Stability of Echo State Networks

Speaker
SEBASTIAN Basterrech

11:10–11:30 **ADVANCING NON-LINEAR SPACE CHARGE SIMULATIONS**

Speaker
Isabella Vojskovic

11:30–11:50

3D single-molecule detection using CNNs and semiconductor nanowires

Speaker
Rubina Davtyan

11:50