Session Program

19–21 Aug 2024

HAMLET-PHYSICS 2024 Conference/Workshop

Poster Session

Lundbeck Auditorium

Monday 19 August

16:00

Poster Session: Poster Session, Beer Talks, Confession Panel

Session | **Location:** Lundbeck Auditorium

16:00–16:30 **Poster Lightning Talks**

16:30–18:00

A local diagnostic program for unitary evolution in general space-times

Speaker
Mr Ka Hei Choi

16:30–18:00

Deep Learning Assisted Raman Spectroscopy for Rapid Identification of 2D Materials

Speaker
Yaping Qi

16:30–18:00

Joint Parameter and Parameterization Inference with Uncertainty Quantification through Differentiable Programming

Speaker
Yongquan Qu

16:30–18:00

ML in the Dating of Greenland Ice Cores: A GRU Method for Automated Annual Layer Identification

Speaker
Rasmus Arentoft Nielsen

16:30–18:00 **Geomagnetic Forecasting with Neural Networks**

Speakers
Ali Ahmad, Florent Imishti Mustafaj

16:30–18:00

Exploring transport in coupled quantum dots for quantum reservoir computing

Speaker
Alva Höglund

16:30–18:00 **Data-driven modelling for limited area forecasting**

Speaker
Leif Denby

16:30–18:00 **Predicting Glacier Thickness: A Machine Learning Approach**

Speaker
Ms Josephine Kande

16:30–18:00

Simulated analogues: a new methodology for non-parametric matching of models to observations

Speakers
Mikkel Christensen, Rajika Kuruwita, Rami Al-Belmpeisi, Troels Haugbølle, Vito Tuhtan

16:30–18:00
Data-driven Methods for Mitigating Stellar Variability in Sun-as-a-Star Observations

Speaker
Jinglin Zhao

16:30–18:00
Investigating noise patterns in the JWST/MIRI detector with ML techniques

Speaker
Prune August

16:30–18:00
Machine Learning for Calorimetry Physics: Classification and Anomaly Detection

Speaker
Bjartur í Túni Mortensen

16:30–18:00 **MetalAI - Atomic structure calculations guided by machine learning**

Speakers
Moust Holmes, Rasmus Damgaard Nielsen

16:30–18:00 **Model-independent anomaly detection in gravitational waves**

Speaker
Emilie Hertig

18:00