

Session Program

20-22 Aug 2025



HAMLET August 20 - 22, 2025
Copenhagen, Denmark
How to Apply Machine Learning to
Experimental & Theoretical

PHYSICS

HAMLET-PHYSICS 2025 Conference/Workshop

Reception

Lundbeck Auditorium

Wednesday 20 August

16:45

Reception: Poster session

Session | **Location:** Lundbeck Auditorium

16:45–18:00

Unraveling Breast Cancer Heterogeneity: Microfluidic Sorting and Bioassay-Based Functional Analysis

Speaker

Esra Yilmaz

16:45–18:00

Investigating the insulator to metal transition in Ca_2RuO_4 with k -means

Speaker

Anders Sandermann Mortensen

16:45–18:00

Shape and Softness Alter Particle sorting in deterministic lateral displacement : An experimental and simulation study

Speaker

Elham Akbari

16:45–18:00

Understanding angle-resolved photoemission data in space and time

Speaker

Philip Hofmann

16:45–18:00

Characterizing ultrashort laser pulses with DenseNet

Speaker

Miguel Canhota

16:45–18:00

Efficient Quantum Vision Transformers

Speaker

Vinay Chakravarthi Gogineni

16:45–18:00

AI/ML Impact Areas in Physics and Materials Discovery of Halide Perovskite Nanomaterials

Speakers

Ms Lidiia Varhanik, Dmitry Baranov

16:45–18:00

Perovskite Molecular Dynamics Enhanced by LATTE: Machine Learning Potentials Using Local Atomic Tensors

Speaker

Atefe Ebrahimi

16:45–18:00

Assessing Insect Biodiversity and Activity Patterns in Tropical Forests Using Entomological Lidar and Hierarchical Clustering Analysis

18:00

Speaker

Meng Li

16:45–18:00

Unlocking the MeV Spectrum: Advancing Detector Technology with AI

Speaker

Michał Kossakowski

16:45–18:00

Machine Learning for Predicting Catalyst Properties in Binary Alloys

Speaker

Dr Mailde S. Ozório

Friday 22 August

13:00

14:00

Reception: (Optional) Farewell coffee / beer

Session | **Location:** Lundbeck Auditorium