

## **Session Program**

**20-22 Aug 2025**



# **HAMLET**

How to Apply Machine Learning to  
Experimental & Theoretical

August 20 - 22, 2025  
Copenhagen, Denmark

# **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 $\text{Ca}_2\text{RuO}_4$ 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