

Session Program

19-21 Aug 2026

HAMLET-PHYSICS 2026 Conference

Plenary: Molecules, materials, structure

Niels Bohr Building, Margrethe Bohr Salen
Jagtvej 155a, Copenhagen

Wednesday 19 August

14:55

Plenary: Molecules, materials, structure

Session | **Location:** Niels Bohr Building, Margrethe Bohr Salen, Jagtvej 155a, Copenhagen

14:55–15:15

From AI-Assisted Characterization to Autonomous Discovery of Novel Ferroelectric Materials

Speaker

Prof. YAPING QI

15:15–15:35

Exploring hidden structure in water using polarizable atom interaction neural networks

Speaker

Dr Fredrik Grote

15:35–15:55

Predicting Magnetic Interactions from Time-Series Magnetization Data Using Explainable Machine Learning

Speaker

Maryna Pankratova

15:55–16:00

Predicting Superconductivity using Machine Learning

Speakers

Ms Amalie Falkenberg Davidsen, Ms Frida Birkedal Nielsen, Mr Hugo Schreckenber, Rasmus Madsen, Silas Billeschou Schack

16:00–16:05

High-Throughput Discovery of Magnetic Materials: By Machine Learning and its combination with First-Principles Methods

Speaker

Atefe Nayamadi Mahmoodabadi

16:05–16:10

Gaussian sum smoothing for continuously monitored quantum systems

Speaker

Julien Pinske

16:10–16:15

Generating pair distance distributions from SAXS data using machine learning

Speakers

Mr Ali Hussein, Niklas Sørensen

16:15