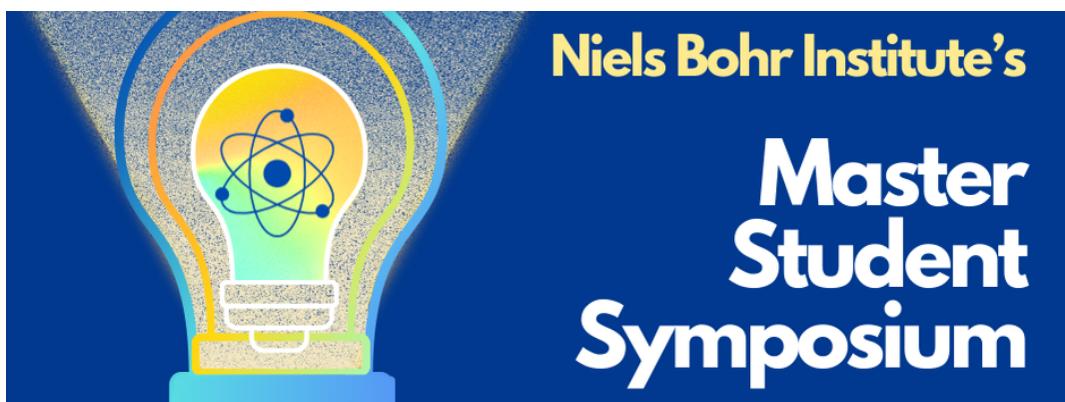


## **Session Program**

**14 March 2025**



# **4th Annual Niels Bohr Institute MSc. Student Symposium**

## ***Presentations***

H.C. Ørsted Institute, Auditorium 3 & Hall  
Universitetsparken 5 2100 København Ø

# Friday 14 March

13:00

## Presentations

**Session | Location:** H.C. Ørsted Institute, Auditorium 3, Universitetsparken 5 2100 København Ø | **Convener:** Thea Guntofte

13:00-13:20 **Gravitational waves lensing by the strong field of a black hole**

**Speaker**

Matilde Garcia

13:20-13:40 **Effects of non-linear excitation on the propagation of light**

**Speaker**

Deniz Adigüzel

13:40-14:00 **Exploring nematic behaviour in systems with polar symmetry**

**Speaker**

Niels de Graaf Sousa

14:00-14:20

**Quantifying the Reduction in Carbon Footprint of Physics-Informed Machine Learning in the Pursuit of Greener Artificial Intelligence Practices**

**Speaker**

Sophia Wilson

14:20

14:45

## Presentations

**Session | Location:** H.C. Ørsted Institute, Auditorium 3, Universitetsparken 5 2100 København Ø | **Convener:** Jens Milan Nielsen

14:45-15:05

**Construction of Fault Tolerant Interfaces for Topological Quantum Error Correcting Codes**

**Speaker**

Max Emil K.S. Sondergaard

15:05-15:25 **Neutron Star properties through Collider experiments**

**Speaker**

Andreas Vitsos

15:25-15:45 **Diatoms - A novel sea-ice proxy**

**Speaker**

Johanna-Sophia Köberl

15:45-16:05 **Modelling bursty star formation in high redshift galaxies**

**Speaker**

Elie Cueto

16:05