

## **Session Program**

**25 March 2022**



# **1st Annual Niels Bohr Institute MSc. Student Symposium**

## ***Poster session***

H.C. Ørsted Institute, Auditorium 1 & Hall  
Universitetsparken 5 2100 København Ø

## Friday 25 March

16:00

### Poster session: Enjoy the posters and refreshments!!!

Session | Location: H.C.Ørsted Institute, Hall

16:05-17:45

#### Optimization of high resolution climate model EC-Earth3-HR on CRAY-CX50

**Speaker**

Nga Ying Lo

16:05-17:45

#### Hunt for axions with high-energy astrophysical neutrinos

**Speaker**

Marie Cornelius

16:05-17:45

#### Examining Kilonova with Expanding Photospheres

**Speaker**

Albert Sønne

16:05-17:45

#### Building a Fabry-Pérot cavity with optomechanical membrane

**Speaker**

Zihua Wang

16:05-17:45

#### Non-relativistic gravity and its linearisation

**Speaker**

Roberto Forbici León

16:05-17:45

#### THE ROLE OF WATER IN PEA PROTEIN HYDRATION/DEHYDRATION, DENATURATION AND DECOMPOSITION

**Speaker**

Rui Liu

16:05-17:45

#### Assessment of crowding by viral spike protein Neuraminidase as a potential driver for membrane budding

**Speaker**

Victoria Thusgaard Ruhoff

16:05-17:45

#### Quadrupolar active stress induces exotic phases of defect motion in active nematics

**Speaker**

Salik Sultan

16:05-17:45

#### One point functions in AdS/dCFT

**Speakers**

Xin Qian, Mr Vasilis Moustakis

16:05-17:45

#### Search for Heavy Neutral Leptons from heavy mesons at ATLAS/SND

**Speakers**

Edis Tireli, Mr Mads Hyttel

16:05-17:45

**Photometric/astrometric classification of QSOs using machine learning algorithms**

**Speakers**

Mr Ioannis Mageiras, Ms Marina Koukouvaou

16:05-17:45 **Galaxy cluster cosmography with BayesLens**

**Speaker**

Jacob Osman Hjortlund

16:05-17:45

**Planet Earth-like patterns in three-dimensional multi-species bacterial colonies**

**Speaker**

Alba García Vázquez

16:05-17:45

**Automated methods for quality control in numerical weather prediction data assimilation**

**Speaker**

Tomás Fernández Bouvier

16:05-17:45

**Impact of snow albedo over the Greenland ice sheet on the atmospheric circulation**

**Speaker**

Dana Lüdemann

16:05-17:45

**Muon neutrino-antineutrino separation potential of the IceCube Upgrade using inelasticity**

**Speaker**

Marc Jacquot

16:05-17:45

**Using EOF analysis to determine the impact of changing climate on baroclinicity in Scandinavia**

**Speaker**

Elloise Fangel-Lloyd

16:05-17:45

**Machine Learning In IceCube: A Graphical Approach**

**Speakers**

Mr Kaare Endrup Iversen, Leon B

16:05-17:45

**Quantum enhanced optical magnetic induction tomography of low conductivity objects**

**Speaker**

Alan Oesterle

16:05-17:45

**Variational autoencoder analysis of phase transitions**

17:45

**Speaker**  
Felix Frohnert

16:05-17:45 **Jamming-Unjamming transitions in active flexible filaments**

**Speaker**  
Varun Venkatesh