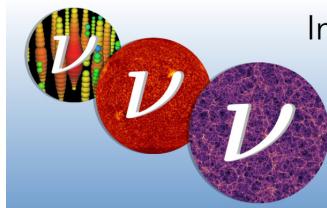


## **Session Program**

**5-9 Jul 2021**



International PhD Summer School on Neutrinos  
*Here, There & Everywhere*

July 5-9, 2021  
Niels Bohr Institute, Copenhagen

# **NBIA Summer School on Neutrinos: Here, There & Everywhere**

## ***Student Talks***

Niels Bohr Institute, Auditorium A  
Blegdamsvej 17 DK-2100 Copenhagen

## Monday 5 July

13:30

### Student Talks

Session | Location: Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

13:30-13:45

#### Chiral EFT Treatment of Neutrinoless Double Beta Decay with Majoron Emission

**Speaker**

Nele Volmer

13:45-14:00

#### Neutrino masses from simple scoto-seesaw model with spontaneous CP violation

**Speaker**

D. Barreiros

14:00-14:15

#### Flavoured leptogenesis and type-II seesaw mechanism with two Higgs triplet scalars

**Speaker**

Sreerupa Chongdar

14:15

16:00

### Student Talks

Session | Location: Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

16:00-16:15

#### The effect of muons production and neutrino trapping on Binary Neutron Star merger remnants

**Speaker**

Eleonora Loffredo

16:15-16:30

#### Exploring the extension of IceCube's supernova observational reach using HE neutrinos from CCSNe ejecta-CSM interaction

**Speaker**

Nora Valtonen-Mattila

16:30

## Tuesday 6 July

13:45

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

13:45-14:00 **Decaying dark matter**

**Speaker**

Andreas Nygaard

14:00

16:00

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

16:00-16:15 **Heavy decaying dark matter at future neutrino radio telescopes**

**Speaker**

Rasmi Enrique Hajjar Muñoz

16:15-16:30

### **Neutrino Mixing by modifying the Yukawa coupling structure of constrained sequential dominance**

**Speaker**

Joy Ganguly

16:30

## Wednesday 7 July

13:30

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

13:30-13:45 **Physics studies for ND280 upgrade at T2K experiment**

**Speaker**

Quoc Viet NGUYEN

13:45-14:00

### Exploring neutrino-nucleon cross sections at the EeV level in upcoming neutrino telescopes

**Speaker**

Victor Valera Baca

14:00-14:15 **Mass hierarchy and CP violation in neutrino oscillation experiments**

**Speaker**

Ankur Nath

14:15

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

16:00-16:15 **Detection of Tau Neutrinos at the Super-Kamiokande Experiment**

**Speaker**

Maitrayee Mandal

16:15-16:30 **Two-Dimensional Air Shower Development with MCEq**

**Speaker**

Tetiana Kozynets

16:30

## Thursday 8 July

13:30

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

13:30-13:45 **Exploration of Directionality Capabilities with PROSPECT**

**Speaker**

Diego Venegas Vargas

13:45-14:00 **Development of a multi-ring  $\nu_e$  sample at the T2K far detector**

**Speaker**

Yashwanth S. Prabhu

14:00-14:15 **Neutrinoless double beta decay search with GERDA and LEGEND**

**Speaker**

Gabriela Rodrigues Araujo

14:15

16:00

### Student Talks

**Session | Location:** Zoom, <https://ucph-ku.zoom.us/j/65131069481?pwd=Sk1ZMUILU3F0NmNIQIFVNkjiNmIUQT09>

16:00-16:15

**Multi-wavelength and multi-messenger studies of extragalactic high-energy particle sources**

**Speaker**

Ilaria Viale

16:15-16:30

**Coherent Elastic Neutrino-Nucleus Scattering and its implications in the search of new Physics**

**Speaker**

G. Sanchez Garcia

16:30