

**Session Program**

**23-25 Nov 2020**

**Partikeldagarna 2020 (virtual), organised by  
Uppsala**

***Tuesday afternoon***

# Tuesday 24 November

14:00

## Tuesday afternoon: Tuesday afternoon

**Session** | **Location:** | **Conveners:** David Marsh, Christian Ohm

### 14:00–14:45 **Deep Learning meets Physics**

**Speaker**

Prof. Martin Erdmann

14:45–15:00

### **Exploring the high energy neutrino universe: IceCube, the IceCube Upgrade, and IceCube-Gen2**

**Speaker**

Dr Erin O'Sullivan

15:00–15:15

### **Radio detection of ultra-high energy neutrinos**

**Speaker**

Christian Glaser

15:15–15:30

### **Revitalising longitudinal plasmon-axion conversion**

**Speaker**

Alexander Millar

15:30–15:33

### **Geometry Calibration of the IceCube Detector**

**Speaker**

Matti Jansson

15:33–15:36

### **Measurement of the snow accumulation in Antarctica with a neutrino radio detector and extension to measure the index-of-refraction profile.**

**Speaker**

Jakob Beise

15:36–15:39

### **Searching for local group supernovae using high-energy neutrinos from CSM interaction**

**Speaker**

Nora Valtonen-Mattila

15:39–15:42

### **Study of X-ray selected blazars with IceCube data**

**Speaker**

Ankur Sharma

15:42–15:45

### **Phase transition configurations in de Sitter are $O(4)$ symmetric**

**Speaker**

Dr José Eliel Camargo Molina

16:00–16:15

### **Coffee Break**

**16:15-16:30 Overview of BSM physics in ATLAS Sweden****Speaker**

Patrawan Pasuwan

**16:30-16:45 ATLAS HL-LHC Upgrade****Speaker**

Eleni Myrto Asimakopoulou

**16:45-17:00 HighNESS and Future Free Neutron Oscillation Searches @ ESS****Speaker**

Valentina Santoro

17:00-17:15

**A Neutron-Antineutron Annihilation Detector for the NNBAR Experiment****Speaker**

Katherine Dunne

**17:15-17:18 Trigger-level analysis in ATLAS****Speaker**

Caterina Marcon

17:18-17:21

**Collision muons analysis using the Tile Calorimeter of the ATLAS detector****Speaker**

Stefio Yosse Andrean

**17:21-17:24 ZH spin-off analysis****Speaker**

Christina Dimitriadi

**17:24-17:27 Dark Mesons at the LHC****Speaker**

Olga Sunneborn Gudnadottir

**17:27-17:30 Cosmic ray backgrounds at the NNBAR experiment****Speaker**

Sze Chun Yiu

**17:30-17:45 Flash talk questions**

17:45