

**Session Program**

**23-25 Nov 2020**

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

***Monday afternoon***

# Monday 23 November

14:00

## Monday afternoon: Monday afternoon

**Session** | **Location:** | **Conveners:** Erin O'Sullivan, Riccardo Catena

### 14:00–14:15 Welcome to Partikeldagarna

#### Speakers

Elin Bergeaas Kuutmann, Dr Erin O'Sullivan

### 14:15–14:30

## CLASH project -- Probing strangeness production in small systems through new multi-differential measurements with ALICE at the LHC

#### Speaker

Adrian Fereydon Nassirpour

### 14:30–14:45

## Search for Light Dark Matter using a Primary Electron Beam

#### Speaker

Geoffrey Mullier

### 14:45–15:00

## Status of the SHIFT project

#### Speaker

Venugopal Ellajosyula

### 15:00–15:15

## How atoms respond to general dark matter-electron interactions

#### Speaker

Dr Timon Emken

### 15:15–15:30

## Possible neutrino signature of hadron-quark phase transition in failing core-collapse supernovae

#### Speaker

Shuai Zha

### 15:30–15:45

## Overview of Higgs Physics in ATLAS

#### Speaker

David Richard Shope

### 15:45–16:00

## Performance and operations of the ATLAS detector (including preparation towards Run-3)

#### Speaker

Jannik Geisen

### 16:00–16:15

## Coffee break

### 16:15–16:30

## Short distance contribution to the muon g-2

#### Speaker

Johan Bijnens

16:30-16:45

**Radiative corrections for the decay  $\Sigma^0 \rightarrow \Lambda e^+ e^-$** **Speaker**

Tomas Husek

16:45-16:55

**Calculating Feynman diagrams with the Chirality-flow method****Speaker**

Andrew Lifson

16:55-17:05

**An introduction to EuCAPT****Speaker**

Dr David Marsh

17:05-17:15

**Search for neutrinos from precursors and afterglows of GRBs****Speaker**

Kunal Deoskar

17:15-17:18

**Emittance Scans Studies at ATLAS ,CERN LHC****Speaker**

Rabia Shaheen

17:18-17:21

**Time determination of hard scatter vertices using the ATLAS experiment's High Granularity Timing Detector - a machine learning approach****Speaker**

Stefan Maras

17:21-17:24

**Automated thermal cycling and testing of ATLAS Inner Tracker detector modules using a microcontroller****Speaker**

Per Alexander Ekman

17:24-17:27

**Upgrades of the ATLAS Tile Calorimeter Readout Electronics for the High-Luminosity LHC****Speaker**

Katherine Dunne

17:27-17:30

**Electroweak corrections to non-zero-pT Z-boson production at pp colliders****Speaker**

Timea Vitos

17:30-17:45

**Flash talk questions**

17:48