

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