

Tuesday 8 April

13:30

Analysis and Reconstruction Methods: 1

Session | **Location:** The Cluster Room (A0.022)

13:30-13:45 An angular analysis of the \$B^0 \to D^* \mu \nu\$

Speaker

Hasret Nur

13:45-14:00

Machine Learning driven improvements for the high-mass MSSM search in the ditau final state with CMS

Speaker

Irene Andreou

14:00-14:15

Novel Machine Learning techniques for high-dimensional density estimation and photon shower calibration

Speaker

Paul Felix Kruper

14:15-14:30

Observation of the $K^{+}\rightin {+} \cdot {+} \cdot$

Speaker

Chandler Baynham Kenworthy

14:30

Wednesday 9 April

11:00

Analysis and Reconstruction Methods: 2

Session | **Location:** The Cluster Room (A0.022)

11:00-11:15

Experience of using ACTS to implement GBTS as a new seeding method for the ATLAS ITk.

Speaker

Rosie Hasan

11:15-11:30

Optimising the LUX-ZEPLIN Neutron Veto using MOO

Speaker

Nathan Pannifer

11:30-11:45 Quantum machine learning in particle physics

Speaker

Marcin Jastrzebski

11:45-12:00

Validation and Calibration of Machine Learning Models: Particle Identification and **Eye-Disease Prognosis**

Speaker

Robert John McNulty

12:00-12:15 Jet mass reconstruction in the CMS level-1 trigger for the HL-LHC

Speaker

Liam Robertshaw

12:15-12:30

Search for $\mu + \rightarrow e + e + e -$ at the Mu3e experiment and the Commissioning of the Pixel Tracker.

Speaker

Charles Kinsman

12:30