

Monday 27 November

17:00

SMARTHEP Annual Meeting: Affiliated students / local student short presentations (5'-7' each) Session | Location: Astronomihuset, Lundmarksalen | Convener: Caterina Doglioni 17:00-17:10 The Baler scientific data compression Open Source project **Speakers** Axel Gallen, Per Alexander Ekman, Pratik Jawahar 17:13-17:20 Maximilian Amerl, University of Manchester Speaker Maximilian Amerl 17:23-17:30 Lara Calic, Lund University Speaker Lara Calic 17:33-17:40 Danielle Wilson-Edwards, University of Manchester Speaker Danielle Joan Wilson-Edwards 17:43-17:50 Sten Astrand, Lund University Speaker Sten Astrand 17:53-18:00 Kaare Iversen, Lund University Speaker Kaare Endrup Iversen 18:00

Thursday 30 November



Friday 1 December

09:00

SMARTHEP Annual Meeting: ESRs to re-present their talks following feedback and training

Session | **Location:** Astronomihuset, Lundmarksalen

09:00-09:15

ESR1: Machine learning and Real-Time Analysis for Higgs boson measurements and fleet safety

Speakers

Henning Kirschenmann, Patin Inkaew

09:15-09:30 ESR2: Real-time rule induction in fraud detection and HEP

Speakers

Bogdan Malaescu, Laura Boggia

09:30-09:45

ESR3: Real time analysis strategies for reconstruction, exotic physics, and market analysis

Speakers

Anna Sfyrla, Leon Bozianu

09:45-10:00 ESR4: Efficient RTA in ATLAS and finance using multithreading

Speakers

Brian Petersen, Sofia Cella

10:00-10:15

ESR5: RTA on heterogeneous architectures for LHC and self-driving cars

Speakers

Fotis Giasemis, Vladimir Gligorov

10:15-10:30

ESR6: Optimization of RTA resources for LHCb Lepton Flavour Violation search and manufacturing

Speakers

Daniel Magdalinski, Gerhard Raven

10:30 11:15

SMARTHEP Annual Meeting: ESRs to re-present their talks following feedback and training

Session | Location: Astronomihuset, Andromeda

11:15-11:30

ESR7: Machine Learning for Real Time Analysis of Lepton Flavour Violation in neutral meson decays and traffic predictions

Speakers

Mr Jamie Gooding, Johannes Albrecht

11:30-11:45

ESR8: Real Time Analysis for global event triggering in LHCb and manufacturing

Speakers

Johannes Albrecht, Micol Olocco

11:45-12:00

ESR9: Real-time analysis for Dark Photons search in LHCb and smart vehicles

Carlos Eduardo Cocha Toapaxi, Martino Borsato, Stephanie Hansmann-Menzemer

12:00-12:15

ESR10: Real-time calibration of ALICE Time Projection Chamber and ML traffic predictions

Speakers

Alice Ohlson, Joachim Hansen

12:15-12:30

ESR11: Real-Time Analysis through computer vision on dashcams and triggers in High Energy Physics, Verizon Connect in Florence and University of Bologna

Francesco Sambo, Henrique Pineiro de Monteagudo, Henrique Piñeiro Monteagudo, Samuele Salti

12:30-12:45 ESR12: Accelerated anomaly detection

Speakers

Caterina Doglioni, Jiri Masik, Pratik Jawahar

12:45