

Session Program

7-10 Apr 2019



IoP Joint HEPP and APP Annual Conference 2019

Parallel stream 4

Imperial College London, Clore Lecture Theatre, Huxley 213
Imperial College London Prince Consort Road South Kensington London

Monday 8 April

14:00

Parallel stream 4: Session 1

Session | **Location:** Imperial College London, Huxley 311 | **Conveners:**
Patrick James Dunne, Roger Jones, Patrick James Dunne, Patrick James Dunne

14:00-14:15

Prospects for ttZ measurements at ATLAS with the full 140 fb⁻¹ Run 2 dataset

Speaker

Baptiste Ravina

14:15-14:30

Low Energy? Think Positive!

Speaker

Scott Melville

14:30-14:45

Search for the supersymmetric partner to the top quark in the all-hadronic channel with the ATLAS Detector.

Speaker

Matthew Thomas Anthony

14:45-15:00

Constraining Systematics at T2K with Near-Detector Fits

Speaker

William Charles Parker

15:00-15:15

The High Pressure gas Time Projection Chamber: a Future Neutrino Detector

Speaker

Toby Sean Nonnenmacher

15:15-15:30

Update on the measurement of the Unitarity Triangle angle γ using $B \rightarrow D^{(*)}K^{(*)}$ decays at LHCb

Speaker

Ms Alexandra Paige Rollings

15:30-15:45

Angular analysis of $B \rightarrow K^+ e e$ at the LHCb experiment

Speaker

Samuel William Maddrell-Mander

15:45-16:00

Branching fraction measurement of $B^0 \rightarrow \pi^+ \pi^- \mu^+ \mu^-$ using Run 1 and Run 2 LHCb data

Speaker

Edward James Millard

16:30

Tuesday 9 April

11:00

Parallel stream 4: Session 2

Session | **Location:** Imperial College London, Huxley 311 | **Conveners:** Francesca Di Lodovico, Vukasin Milosevic

11:00-11:15

Matter density profile effects on neutrino oscillations at T2HK and T2HKK

Speaker

Susana Molina Sedgwick

11:15-11:30

Optical calibration design for the Hyper-Kamiokande Outer Detector

Speaker

Celeste Pidcott

11:30-11:45

A New Jet Pairing Method for Reconstructing $HH \rightarrow b\bar{b}b\bar{b}$ Events

Speaker

Beojan Stanislaus

11:45-12:00

Advances and challenges in the full run 2 search of boosted di-higgs decaying to $b\bar{b}b\bar{b}$ with the ATLAS detector

Speaker

Santiago Rafael Paredes Saenz

12:00-12:15

Angular Analysis of the $B \rightarrow K^* \mu \mu$ decay at the LHCb Experiment

Speaker

Felix Johannes Kress

12:15-12:30

Determination of hadronic resonance contributions to the $B^0 \rightarrow K^{*0} \mu \mu$ decay

Speaker

Malte Hecker

13:00

Wednesday 10 April

11:00

Parallel stream 4: Session 3

Session | **Location:** Imperial College London, Huxley 311 | **Conveners:**
Nicholas Wardle, Edward Thomas Atkin, Melissa Anne Uchida

11:00-11:15

Searching for the Invisible using cross-section ratios

Speaker

Vasilis Konstantinides

11:15-11:30

Search for low-mass WIMPs with the DarkSide-50 experiment

Speaker

Paolo Agnes

11:30-11:45

The Darkside-20k experiment

Speaker

Daria Santone

11:45-12:00

Combined Search for an Invisibly Decaying Higgs Boson in Hadronic Channels at $\sqrt{s} = 13$ TeV with CMS

Speaker

Eshwen Bhal

12:00-12:15

Search for decays of the Higgs Boson to bottom quarks via Associated Vector Boson production at the ATLAS experiment

Speaker

Dwayne Spiteri

12:15-12:30

The search for invisibly decaying Higgs bosons at the LHC

Speaker

Vukasin Milosevic

13:00