



# IoP Joint HEPP and APP Annual Conference 2019

## Monday, April 8, 2019

### Parallel stream 4: Session 1 - Huxley 311 (2:00 PM - 4:30 PM)

-Conveners: Patrick James Dunne; Patrick James Dunne; Patrick James Dunne; Roger Jones

time	[id] title	presenter
2:00 P	[M44] Prospects for ttZ measurements at ATLAS with the full 140 fb <sup>-1</sup> Run 2 dataset	RAVINA, Baptiste
2:15 P	[M6] Low Energy? Think Positive!	MELVILLE, Scott
2:30 P	[M5] Search for the supersymmetric partner to the top quark in the all-hadronic channel with the ATLAS Detector.	ANTHONY, Matthew Thomas
2:45 P	[M5] Constraining Systematics at T2K with Near-Detector Fits	PARKER, William Charles
3:00 P	[M6] The High Pressure gas Time Projection Chamber: a Future Neutrino Detector	NONNENMACHER, Toby Sean
3:15 P	[M5] Update on the measurement of the Unitarity Triangle angle $\gamma$ using B $\rightarrow$ D(*)K(*) decays at LHCb	Ms ROLLINGS, Alexandra Paige
3:30 P	[M9] Angular analysis of B $\rightarrow$ K $\pi$ ee at the LHCb experiment	MADDRELL-MANDER, Samuel William
3:45 P	[M0] Branching fraction measurement of B $\rightarrow$ $\pi^+\pi^-\mu^+\mu^-$ using Run 1 and Run 2 LHCb data	MILLARD, Edward James

# Tuesday, April 9, 2019

## Parallel stream 4: Session 2 - Huxley 311 (11:00 AM - 1:00 PM)

-Conveners: Vukasin Milosevic; Francesca Di Lodovico

time	[id] title	presenter
11:00	<del>AM</del> Matter density profile effects on neutrino oscillations at T2HK and T2HKK	MOLINA SEDGWICK, Susana
11:15	<del>AM</del> Optical calibration design for the Hyper-Kamiokande Outer Detector	PIDCOTT, Celeste
11:30	<del>AM</del> A New Jet Pairing Method for Reconstructing HH $\rightarrow$ $b\bar{b}b\bar{b}$ Events	STANISLAUS, Beojan
11:45	<del>AM</del> 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	PAREDES SAENZ, Santiago Rafael
12:00	<del>PM</del> Angular Analysis of the B $\rightarrow$ K* $\mu\mu$ decay at the LHCb Experiment	KRESS, Felix Johannes
12:15	<del>PM</del> Determination of hadronic resonance contributions to the B0 $\rightarrow$ K*0 $\mu\mu$ decay	HECKER, Malte

# Wednesday, April 10, 2019

## Parallel stream 4: Session 3 - Huxley 311 (11:00 AM - 1:00 PM)

-Conveners: **Melissa Anne Uchida; Edward Thomas Atkin; Nicholas Wardle**

time	[id] title	presenter
11:00	<del>[93]</del> Searching for the Invisible using cross-section ratios	KONSTANTINIDES, Vasilis
11:15	<del>[94]</del> Search for low-mass WIMPs with the DarkSide-50 experiment	AGNES, Paolo
11:30	<del>[95]</del> The Darkside-20k experiment	SANTONE, Daria
11:45	<del>[97]</del> Combined Search for an Invisibly Decaying Higgs Boson in Hadronic Channels at $\sqrt{s} = 13$ TeV with CMS	BHAL, Eshwen
12:00	<del>[97]</del> Search for decays of the Higgs Boson to bottom quarks via Associated Vector Boson production at the ATLAS experiment	SPITERI, Dwayne
12:15	<del>[98]</del> The search for invisibly decaying Higgs bosons at the LHC	MILOSEVIC, Vukasin