

Session Program

7-10 Apr 2019



IoP Joint HEPP and APP Annual Conference 2019

Parallel stream 3

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

Monday 8 April

14:00

Parallel stream 3: Session 1

Session | **Location:** Imperial College London, Huxley 308 | **Convener:** Mark Scott

14:00–14:15 **Top-Antitop Charge Asymmetry with Fully Bayesian Unfolding**

Speaker

Robert Adam Vallance

14:15–14:30 **Single dissociative diffraction at $\sqrt{s}=13$ TeV with the ATLAS detector**

Speaker

Mr James Kendrick

14:30–14:45 **Top quark charge asymmetry at LHCb**

Speaker

James Mead

14:45–15:00

CP violation measurements in B decays with final state neutral kaons: how precise can we get?

Speaker

Mikkel Bjorn

15:00–15:15

A scintillator-based range telescope for quality assurance in proton therapy

Speaker

Laurent Kelleter

15:15–15:30 **Neutrinoless Double Beta Decay in the SNO+ Experiment**

Speaker

Tereza Kroupova

15:30–15:45 **First physics results from the SNO+ experiment**

Speaker

Dr Martti Nirkko

16:30

Tuesday 9 April

11:00

Parallel stream 3: Session 2

Session | **Location:** Imperial College London, Huxley 308 | **Conveners:**

Justin Evans, Justin Evans, Justin Evans, Patrick James Dunne, Patrick James Dunne, Abbey Waldron, Patrick James Dunne

11:00-11:15

Photon yield and MCP-PMTs in a prototype TORCH detector.

Speaker

Emmy Pauline Maria Gabriel

11:15-11:30

Beam test studies of a prototype TORCH detector

Speaker

Thomas Henry Hancock

11:30-11:45

Search for chargino and neutralino production in final state with three leptons and missing transverse momentum, via WH intermediate decays

Speaker

Fabrizio Trovato

11:45-12:00

A search for light Higgs bosons in supersymmetric decay cascades at CMS.

Speaker

Joseph Taylor

12:00-12:15

Searches for NMSSM Signatures with low Missing Transverse Energy at the CMS detector at the LHC

Speaker

Alexander Titterton

12:15-12:30

Approaching the neutrino mass problem with a beam dump experiment.

Speaker

Tommaso Boschi

13:00

Wednesday 10 April

11:00

Parallel stream 3: Session 3

Session | **Location:** Imperial College London, Huxley 308 | **Conveners:**
Abbey Waldron, Samuel Webb, Chamkaur Ghag

11:00-11:15

Measurement of the CP violation parameter $A\Gamma$ at LHCb with $D^0 \rightarrow \pi^-\pi^+\pi^-\pi^+$ decays.

Speaker

Lauren Marie Douglas

11:15-11:30

Search for CP violation in $L_b \rightarrow p3\pi$ decays

Speaker

Gediminas Sarpis

11:30-11:45

Hunt for Hidden Photons in the LZ Experiment

Speaker

Athoy Nilima

11:45-12:00

Neutrinoless Double Beta Decay in LZ

Speaker

Rob Taylor

12:00-12:15

Measuring the mass of the Higgs Boson at the ATLAS detector in the $H \rightarrow ZZ^* \rightarrow 4l$ channel using an analytic model

Speaker

Thomas Powell

12:15-12:30

Search for Decays of the Higgs Boson into a Z Boson and a Light Hadronically Decaying Resonance

Speaker

Elliot Reynolds

13:00