

Session Program

7-10 Apr 2019



IoP Joint HEPP and APP Annual Conference 2019

Parallel stream 1

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

Monday 8 April

14:00

Parallel stream 1: Session 1

Session |

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

Convener: Jonathon Mark Langford

14:00–14:15

Measurement of the CP nature of the Htt Yukawa coupling using gluon fusion production in association with two jets with a Higgs boson decay to a tau lepton pair

Speaker

Albert Kenneth Dow

14:15–14:30

Measuring the top higgs couplings CP-nature in ttH(->bb) dilepton events.

Speaker

Nicolas Scharmberg

14:30–14:45

Background Modelling in the ttH(H→γγ) Channel

Speaker

Matthew Peter Heath

14:45–15:00

Prospects for top-Yukawa coupling and Higgs boson CP at the CLIC e+e- collider

Speaker

Yixuan Zhang

15:00–15:15

A preliminary charged-current muon neutrino inclusive selection in SBND.

Speaker

Tom Brooks

15:15–15:30

An electron neutrino event selection procedure in the Short-Baseline Near Detector

Speaker

Dominic Barker

15:30–15:45

DQM4HEP: a generic online monitor for particle physics experiments

Speaker

Tom Coates

15:45–16:00

Integration-by-parts identities and multi-loop QCD amplitudes

Speaker

Herschel Chawdhry

16:30

Tuesday 9 April

11:00

Parallel stream 1: Session 2

Session |

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

Conveners: Antonin Vacheret, Antonin Vacheret, Edward Thomas Atkin

11:00–11:15

Extending dark matter searches in liquid xenon to single scintillation photons

Speaker

Nellie Marangou

11:15–11:30

Background model for the LUX experiment

Speaker

Peter Rossiter

11:30–11:45

Latest $B \rightarrow \mu^+ \mu^-$ results with the ATLAS detector

Speaker

Fabio Tresoldi

11:45–12:00

Searching for new physics with emu asymmetry at the ATLAS detector

Speaker

Holly Ann Pacey

12:00–12:15

Measuring Muon Induced Neutrons in the Water Phase of the SNO+ Experiment

Speaker

Mark Stringer

12:15–12:30

The Water Cherenkov Monitor for Anti-Neutrinos (WATCHMAN) at the Advanced Instrumentation Testbed.

Speaker

Matthew Malek

13:00

Wednesday 10 April

11:00

Parallel stream 1: Session 3

Session |

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

Convener: Sinead Farrington

11:00-11:15

Measurement of CP violation parameters in $B^0 \rightarrow DK^{*0}$ decays

Speaker

Hannah Pullen

11:15-11:30

Measurement of the CP violating phase ϕ_s originating in $B^0_s \rightarrow J/\psi \phi$ decays using LHCb Run 2 data

Speaker

Jennifer Zonneveld

11:30-11:45

ARIADNE: A 1-ton dual-phase LArTPC with optical readout.

Speaker

Jared John Vann

11:45-12:00

Recent advancements on the NEWS-G spherical proportional counter sensors

Speaker

Ioannis Katsioulas

12:00-12:15

Search for single-production of vector-like B quark decaying into a bottom quark and a Higgs in the $H \rightarrow b\bar{b}$ decay mode with the ATLAS experiment.

Speaker

Marco Montella

12:15-12:30

Observation of $H \rightarrow b\bar{b}$ decays in the VH production mode and first differential measurement with the ATLAS detector

Speaker

Luca Ambroz

13:00