

Session Program

25-28 Mar 2018

IoP APP / HEPP Conference 2018

Parallel I

University of Bristol
H. H. Wills Laboratory Tyndall Avenue Bristol BS8 1TL UK

Monday 26 March

11:30

Parallel I: TBC

Session | **Location:** University of Bristol, Mott Theatre

11:30–11:45

Search for additional heavy neutral Higgs and gauge bosons decaying to di-tau in the ATLAS detector produced with 13 TeV proton-proton collisions at the LHC

Speaker

Theodore Zorbas

11:45–12:00

Search for exclusive Higgs and Z boson decays to $\phi\gamma$ and $\rho\gamma$ with the ATLAS detector

Speaker

Rhys Edward Owen

12:00–12:15

Search for boosted $t\bar{t}H(H\rightarrow b\bar{b})$ with the ATLAS detector

Speaker

Emma Winkels

12:15–12:30

Searching for decays of the Higgs boson to charm quarks at ATLAS

Speaker

Elliot Reynolds

12:30–12:45

Searches for additional neutral Higgs bosons in the di-tau final state with the CMS experiment

Speaker

Daniel Winterbottom

13:00

14:00

Parallel I: TBC

Session | **Location:** University of Bristol, Mott Theatre

14:00–14:15

Measurement of $Z+bb$ kinematic variables with ATLAS

Speaker

Chloe Gray

14:15–14:30

Searching for invisible phenomena through measurement of events with jets and large missing transverse momentum in pp collisions at ATLAS

Speaker

Rebecca Hayley Pickles

14:30–14:45

Measurements of boosted top-quark differential cross-sections in the lepton+jets channel at $s=\sqrt{13}$ TeV using pp collision data recorded with the ATLAS detector

Speaker

Michael James Fenton

14:45–15:00

Higgsinos and compressed sleptons: opening the soft lepton frontier for new physics at the LHC**Speaker**

Jesse Liu

15:00–15:15

Dark Matter Searches at CMS**Speaker**

Shane Davy Breeze

15:15–15:30

Search for single top production in association with a Z boson for the dilepton final state in pp collisions at $\sqrt{s} = 13$ TeV in the CMS detector**Speaker**

Corin James Keir Hoad

15:45

Tuesday 27 March

11:30

Parallel I: TBC

Session | **Location:** University of Bristol, Mott Theatre

11:30–11:45

Tagging boosted jets from top quarks and heavy vector bosons using jet substructure and multivariate techniques

Speaker

Amal Vaidya

11:45–12:00

Searches for Resonant and Non-Resonant Higgs Pair Production in the $b\bar{b}\tau\tau$ Decay Channel with the ATLAS Detector

Speaker

Emily Charlotte Graham

12:00–12:15

Searches for heavy ZZ and ZW resonances in the $llqq$ and $\nu\nu qq$ final states at 13 TeV in the ATLAS detector

Speaker

David Philip John Lack

12:15–12:30

Measurements of Higgs boson cross sections and couplings in the diphoton decay channel with the CMS experiment

Speaker

Edward Scott

12:30–12:45

Higgs-to-Invisible Searches for the CMS experiment at the LHC

Speaker

Mr Riccardo Di Maria

13:00

Wednesday 28 March

11:00

Parallel I

Session | **Location:** University of Bristol, Mott Theatre

11:00–11:15

Search for low mass dijet resonances in association with ISR in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

Speaker

Andreas Sogaard

11:15–11:30

ATLAS Measurement of the Dynamics of Single Proton Dissociation at the LHC

Speaker

Andrew Geoffrey Foster

11:30–11:45

The Quest for New Physics, motivated with strong-supersymmetric models, in final states with many hadronic jets in 13 TeV pp collisions at the ATLAS detector

Speaker

Michael Edward Nelson

12:00