

## **Session Program**

**21-23 Mar 2016**



## **IoP HEPP and AP joint meeting**

### ***Parallel session 4***

University of Sussex, Chichester Lecture Theatre  
Falmer Brighton BN1 9QJ UK

## Wednesday 23 March

09:35

### Parallel session 4: Session 4A

**Session** | **Location:** University of Sussex, Chichester Lecture Theatre

09:35–09:50

#### The search for the production of four top quarks at the CMS experiment

**Speaker**

Lana Margaret Gwen Beck

09:50–10:05

#### Search for high mass Zgamma resonances using leptonic Z Boson decays in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

**Speaker**

Nathan Peter Readioff

10:05–10:20

#### Theoretical uncertainties in the search for heavy gauge bosons at the LHC

**Speaker**

Ellis Kay

10:35

09:35

### Parallel session 4: Session 4B

**Session** | **Location:** University of Sussex, Pevensey 1, Level 1 A06 (1A06)

09:35–09:50

#### Determining the standard model backgrounds of a search for new physics with jets and missing transverse momentum in 13 TeV pp collisions at the LHC

**Speaker**

Adam Christopher Elwood

09:50–10:05

#### Statistical methods for optimising the sensitivity of a search for new physics using jets and missing transverse momentum in 13 TeV pp collisions at the LHC

**Speaker**

Matthew Daniel Citron

10:05–10:20

#### Search for bottom squark pair production with the ATLAS detector in proton-proton collisions at $\sqrt{s} = 13$ TeV

**Speaker**

John Kenneth Anders

10:35

09:35

### Parallel session 4: Session 4C

**Session** | **Location:** University of Sussex, Pevensey 1, Level 1 A07 (1A07)

09:35–09:50

#### The ANNIE Experiment - Measuring neutron yield from accelerator neutrino interactions. Marcus O'Flaherty, University of Sheffield, UK

10:35

09:35

10:35

09:50–10:05

**Prototype detection unit for the CHIPS experiment. Maciej Pfutzner, University College London, UK**

10:05–10:20

**Search for short baseline oscillations with the SoLid Experiment**

**Speaker**

Antonin Vacheret

## Parallel session 4: Session 4D

**Session** | **Location:** University of Sussex, Pevensey 1, Level 2 D10 (2D10)

09:35–09:50

**Status of the NA62 experiment at CERN SPS**

**Speaker**

Angela Romano

09:50–10:05

**The coherent muon to electron transition experiment**

**Speaker**

Ajit Kurup

10:05–10:20

**Physics with the g-2 straw tracker. Thomas Stuttard, University College London, UK**

10:20–10:35

**Measurement of the width difference of the  $B_d$  meson with the ATLAS detector**

**Speaker**

Malcolm Bruce Skinner