

## **Session Program**

**30 January 2019 to 1 February 2019**

# **HEPP Workshop 2019**

## ***Session IV***

Nelson Mandela University, Room 0017

Nelson Mandela University Room 0017 Ground Floor Building 127 Science Building South Campus  
Summerstrand

## Thursday 31 January

14:00

### Session IV: Session IV

Session |

**Location:** Nelson Mandela University, Room 0017, Nelson Mandela University Room 0017 Ground Floor Building 127 Science Building South Campus Summerstrand

14:00-14:20

#### **H4I lepton isolation studies for the $H \rightarrow ZZ \rightarrow 4\ell$ channel**

**Speaker**

Onesimo Mtintsilana

14:20-14:40

#### **Search for a new resonance in the diphoton decay in association with $E_{\text{T}}^{\text{miss}}$ with the ATLAS detector**

**Speaker**

Shell-May Liao

14:40-15:00

#### **Top-quark background estimation for BSM search $H \rightarrow Sh \rightarrow 2\ell + >=2$ jets with the ATLAS detector**

**Speaker**

Jeremiah Kgomotso Monnakgotla

15:00-15:20

#### **$W+jets$ fake background estimation using the fake factor method, for the BSM search $H \rightarrow Sh \rightarrow 2\ell + jets$ with the ATLAS detector**

**Speaker**

Lehumo Mashishi

15:20-15:50

#### **Tea/Coffee**

15:50-16:10

#### **Search for physics beyond the Standard Model in events with two opposite charged leptons and jets at the LHC**

**Speaker**

Yesenia Hernandez Jimenez

16:10-16:30

#### **What can $3\ell$ signatures at the LHC tell us about additional bosons?**

**Speaker**

Kehinde Gbenga Tomiwa

17:20