

## **Session Program**

**24-28 Mar 2025**



## **Deep Inelastic Scattering 2025**

### ***WG6: Future Experiments***

## Tuesday 25 March

09:00

### WG6: Future Experiments: WG6: Session #1

**Session** | **Location:** Pacific 2 | **Conveners:** Jamie Boyd, Laurent Forthomme

#### 09:00–09:22 ATLAS Upgrades for the High Luminosity LHC

**Speaker**

Ryan Peter Mckenzie

#### 09:22–09:44 The CMS Muon System Upgrades for the HL-LHC

**Speaker**

Sabino Meola

#### 09:44–10:06 ATLAS Muon Detectors upgrades for High Luminosity LHC

**Speakers**

Gia Khorauli, Gia Khorauli

#### 10:06–10:28 ATLAS ITk Pixel Detector Overview

**Speakers**

Francesco Crescioli, Francesco Crescioli

10:30

11:00

### WG6: Future Experiments: WG6: Session #2

**Session** | **Location:** Pacific 2 | **Conveners:** Laurent Forthomme, Jamie Boyd

#### 11:00–11:22 The LHeC in the landscape of particle physics colliders

**Speaker**

Nestor Armesto Perez

#### 11:22–11:54 Detector concepts for a 10 TeV Muon Collider

**Speaker**

Simone Pagan Griso

#### 11:54–12:16

#### Online track reconstruction with graph neural networks on FPGAs for the ATLAS experiment

**Speaker**

Santosh Parajuli

12:30

14:00

### WG6: Future Experiments: WG6: Session #3

**Session** | **Location:** Pacific 2 | **Conveners:** Jamie Boyd, Laurent Forthomme

#### 14:00–14:22 The physics program of high-energy DIS: LHeC and FCC-eh

**Speaker**

Claire Gwenlan

#### 14:22–14:44 The Forward Physics Facility at the HL-LHC

**Speaker**

Peter Krack

14:44-15:06

**Physics results with the CMS Precision Proton Spectrometer and projections for the HL-LHC with PPS2**

**Speaker**

Laurent Forthomme

15:06-15:26

**Overview of ATLAS forward proton detectors: status, performance and new physics results**

**Speaker**

Savannah Clawson

15:30

## Wednesday 26 March

09:00

### WG6: Future Experiments: WG6: Session #4

**Session** | **Location:** Pacific 2 | **Conveners:** Laurent Forthomme, Jamie Boyd

09:00–09:22

#### Performance and calibration of the ATLAS Tile Calorimeter

##### Speaker

Robert Astalos

09:22–09:44

#### South Africa's Contribution to the Upgrade of the ATLAS TileCal low voltage power supply for the HL-LHC

##### Speaker

Mpho Gift Doctor Gololo

09:44–10:06

#### Upgrade of ATLAS Hadronic Tile Calorimeter for the High Luminosity LHC

##### Speakers

Pavle Tsotskolauri, Phuti Ntsoko Rapheeha, Phuti Rapheeha

10:06–10:28

#### A Burn-in Test Station for the Transformer-Coupled Buck Converter Boards within the Low Voltage Power Supplies of the ATLAS Tile Calorimeter

##### Speaker

Thabo Pilusa

10:30

11:00

### WG6: Future Experiments: WG6: Session #5

**Session** | **Location:** Pacific 2 | **Conveners:** Jamie Boyd, Laurent Forthomme

11:00–11:22

#### An overview of the test station involved in the production of the LVPS Bricks for the Phase II upgrade of the ATLAS Tile Calorimeter

##### Speakers

Mukesh Kumar, Vongani Cyril Chabalala

11:22–11:44

#### Low Voltage Power Supply Quality Control with Machine Learning for ATLAS Tile-Calorimeter

##### Speaker

Chuene Johannes Mosomane

11:44–12:06

#### The ATLAS ITk Strip Detector Overview

##### Speaker

Luca Sesto Colangeli

12:30

14:00

### WG6: Future Experiments: WG6: Session #6

**Session** | **Location:** Pacific 2 | **Conveners:** Jamie Boyd, Laurent Forthomme

14:00–14:22

#### The ATLAS Trigger System

	<p><b>Speaker</b> Marco Rimoldi</p>
	<p>14:22-14:44</p> <p><b>The upgrade of the ATLAS Trigger and Data Acquisition system for the High Luminosity LHC</b></p> <p><b>Speaker</b> Sebastien Roy-Garand</p>
	<p>14:44-15:06</p> <p><b>Performance of the ATLAS Muon Spectrometer Detectors during Run3 data taking</b></p> <p><b>Speaker</b> Giulia Manco</p>
15:30	
16:00	<p><b>WG6: Future Experiments: WG6: Session #7</b>  <b>Session</b>   <b>Location:</b> Pacific 2   <b>Conveners:</b> Laurent Forthomme, Jamie Boyd</p>
	<p>16:00-16:22    <b>The LHeC empowering the HL-LHC program</b></p> <p><b>Speaker</b> Nestor Armesto Perez</p>
	<p>16:22-16:44</p> <p><b>Overview on Efforts for a Second Detector at the Electron-Ion Collider (EIC)</b></p> <p><b>Speaker</b> Jihee Kim</p>
	<p>16:44-17:06</p> <p><b>The ePIC Silicon Vertex Tracker Barrel: design and first thermal-mechanical tests.</b></p> <p><b>Speaker</b> Domenico Elia</p>
17:30	