

## **Session Program**

**18 November 2024**

### **LHC students poster session**

### ***Detector operations, upgrades and R&D***

CERN, 61/1-201 - Pas perdus - Not a meeting room -

# Monday 18 November

18:10

## Detector operations, upgrades and R&D

**Session** | **Location:** CERN, 61/1-201 - Pas perdue - Not a meeting room -

18:10-18:11

### Forward Calorimeter information for the CMS Level 1 Trigger at HL-LHC

**Speaker**

Pranav Keshav Govekar

18:11-18:12

### Performance validation procedure for the PCBs of the ME0 GEM detector for the phase 2 upgrade of the CMS detector

**Speaker**

Bhawana Chauhan

18:12-18:13

### Performance and Operation of CMS Pixel Tracker in 2023 and 2024

**Speaker**

Guru Reddy

18:13-18:14

### The CMS TEPX detector for the Phase-2 CMS Inner Tracker

**Speaker**

Giovanni Celotto

18:14-18:15

### Studies of the CMS MTD Barrel Timing Layer Assembly Procedure at the Tracker Integration Facility

**Speaker**

Brandon Frank Petersen

18:15-18:16

### Automated Tests of the Upgraded VFE Cards for the CMS Barrel Electromagnetic Calorimeter

**Speaker**

Mr Brian X Jiang

18:16-18:17

### Kalman filter for muon reconstruction in the CMS Phase-2 endcap calorimeter

**Speaker**

Mark Nicholas Matthewman

18:17-18:18

### The CMS Phase-2 High Granularity Calorimeter Endcap Event Reconstruction with the TICL Framework

**Speaker**

Wahid Redjeb

18:18-18:19

### Use of time information in TICL reconstruction for Phase-2 CMS

**Speaker**

Aurora Perego

**18:19-18:20****ALICE FoCal upgrade for LS3: R&D and performance****Speaker**

Nicolas Strangmann

**18:20-18:21****ALICE 3 TOF detector: simulations and prototype studies for CMOS-LGADs with 20 ps time resolution****Speakers**

Chiara Ferrero, Giulia Gioachin

**18:21-18:22****ALICE 3 Forward Conversion Tracker detector and physics performance****Speaker**

Cas Van Veen

**18:22-18:23****Operation and maintenance of the custom designed High Voltage Power Supply system for the ATLAS SCT detector****Speaker**

Maria Malgorzata Dudek

**18:23-18:24****Thermal cycling of the ATLAS ITk strip barrel modules****Speaker**

Rachel Amy Ashby Pickering

**18:24-18:25****Calibration of the ATLAS Tile Calorimeter using Minimum Bias currents****Speaker**

Matej Haviernik

**18:25-18:26****ATLAS New Small Wheel performance studies with LHC Run 3 data****Speaker**

Romano Orlandini

**18:26-18:27****Improved spatial resolution of ATLAS NSW Micromegas using cluster time correction****Speakers**

Fabian Vogel, Valerio D'Amico

**18:27-18:28****gFEX - A novel feature extractor for the ATLAS Level-1 Calorimeter Trigger****Speaker**

Rabia Omar

**18:28-18:29****Production and test of BI-PRC detectors for the ATLAS phase 2 upgrade****Speaker**

Gregorio Falsetti

18:29-18:30

**SiPM development for LHCb SciFi Upgrade II****Speaker**

Federico Ronchetti

18:30-18:31

**Primary vertex timing reconstruction with the LHCb RICH detectors****Speaker**

Lorenzo Malentacca

18:31-18:32

**Study of the performance of the RICH system for the LHCb Upgrade II****Speaker**

Alessia Anelli

18:32-18:33

**Time resolution studies for the future LHCb PicoCal****Speaker**

Alberto Bellavista

19:10