

Session Program

10-17 Jul 2019



EPS-HEP2019

Detector R&D and Data Handling

Ghent

International Convention Center and Ghent University - Campus Ledeganck, Ghent, Belgium

Thursday 11 July

09:00

Detector R&D and Data Handling

Session | **Location:** Ghent, Campus Ledeganck - Aud. 4 | **Conveners:** Nadia Pastrone, Niko Neufeld

09:00–09:15 **Precision Timing with the CMS MIP Timing Detector**

Speaker

Adolf Bornheim

09:15–09:30

A High-Granularity Timing Detector for the Phase-II upgrade of the ATLAS Calorimeter system: detector concept, description and R&D and first beam test results

Speaker

Alexander Leopold

09:30–09:45 **SciFi - A large Scintillating Fibre Tracker for LHCb**

Speaker

Mauricio Feo

09:45–10:00 **The new Inner Tracking System for the ALICE Upgrade**

Speaker

Dr Yasser Corrales Morales

10:00–10:15 **The Gigatracker of the NA62 experiment at CERN**

Speaker

Alina Kleimenova

10:15–10:30 **Commissioning of the Belle II Pixel Vertex Detector**

Speakers

Dr Hua Ye, PXD-DEPFET Collaboration

10:30–10:45 **Upgrade of the ALICE Time Projection Chamber for the LHC Run3**

Speaker

Adam Laszlo Gera

10:45–11:00 **Status of the TORCH time-of-flight detector**

Speaker

Tom Hadavizadeh

11:00–11:30 **Coffee break**

11:30–11:45

First Experiences with the Novel Time of Propagation (TOP) Barrel PID Detector in the Belle II Experiment

Speaker

Oskar Hartbrich

11:45–12:00 **MUON Spectrometry at forward rapidities in ALICE**

Speaker

Andrea Ferrero

12:00–12:15

Frontend and backend electronics for the ATLAS New Small Wheel Upgrade**Speaker**

Ann Miao Wang

12:15–12:30

The GEM (GE1/1) Phase II Upgrade for the CMS muon system: results from in-situ demonstrator, production detector qualification, and commissioning plans**Speaker**

Ilaria Vai

12:30–12:45

The CMS Tracker Upgrade for the High Luminosity LHC**Speaker**

Simone Paoletti

12:45–13:00

The FAMU experiment at RIKEN RAL for a precise measure of the proton radius**Speakers**

Maurizio Bonesini, Maurizio Bonesini, Maurizio Bonesini

13:00

14:30

Detector R&D and Data Handling**Session** | **Location:** Ghent, Campus Ledeganck - Aud. 4 | **Convener:** Niko Neufeld

14:30–14:45

The PADME experiment**Speaker**

Dr Gabriele Chiodini

14:45–15:00

Detector Performances Studies at Muon Collider**Speakers**

Donatella Lucchesi, Donatella Lucchesi

15:00–15:15

Commissioning of the Cylindrical Drift Chamber for the COMET experiment**Speaker**

Manabu Moritsu

15:15–15:30

Performances of multi-PMT photodetector for the Hyper-Kamiokande experiment**Speaker**

Benjamin Quilain

15:30–15:45

Performance of the SoLid reactor neutrino detector**Speaker**

Luis Manzanillas

15:45–16:00

THE ELECTRONICS READOUT SYSTEM OF THE JUNO EXPERIMENT**Speaker**

Barbara Clerbaux

16:00-16:30 **Coffee break**

16:30-16:45

Characterisation of planar and 3D Silicon pixel sensors for the high luminosity phase of the CMS experiment at LHC

Speaker

Davide Zuolo

16:45-17:00 **4D particle tracking with Resistive AC-Coupled Silicon Detectors**

Speaker

Marco Mandurrino

17:00-17:15

High time resolution, two-dimensional position sensitive MSMRPC for high energy physics experiments

Speaker

Dr Mariana Petris

17:15-17:30

Fluoride production in CMS Resistive Plate Chambers (RPC) and long-term aging studies

Speaker

Andrea Gelmi

17:30-17:45

Single Event Upsets in the ATLAS IBL Frontend ASICs at the Large Hadron Collider at CERN

Speaker

Peilian Liu

17:45-18:00 **Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector**

Speaker

Lorenzo Rossini

18:00-18:15 **Reconstruction in an imaging calorimeter for HL-LHC**

Speaker

Arabella Martelli

18:15-18:30

Exploring the structure of hadronic showers and hadronic energy reconstruction with highly granular calorimeters

Speaker

Imad Laktineh

18:30

Friday 12 July

09:00

Detector R&D and Data Handling

Session | **Location:** Ghent, Campus Ledeganck - Aud. 4 | **Conveners:** Niko Neufeld, Nadia Pastrone

09:00–09:15

A comprehensive real-time analysis model in Run 2 at the LHCb experiment

Speaker

Biljana Mitreska

09:15–09:30

A Novel Approach to Calorimeter-based Particle Identification at the Belle II Experiment using Scintillator Pulse Shape Discrimination

Speaker

Savino Longo

09:30–09:45

Application of Quantum Machine Learning to High Energy Physics Analysis at LHC using IBM Quantum Computer Simulators and IBM Quantum Computer Hardware

Speaker

Chen Zhou

09:45–10:00

Overview of the HL-LHC Upgrade for the CMS Level-1 Trigger

Speaker

Cecile Sarah Caillol

10:00–10:15

The ATLAS Hardware Track Trigger design towards first prototypes

Speaker

Francesca Pastore

10:15–10:30

Level 1 Muon Triggers for the CMS Experiment at the HL-LHC

Speaker

Santiago Folgueras

10:30–10:45

ATLAS Level-1 Endcap Muon Trigger for Run 3

Speaker

Tomoe Kishimoto

10:45–11:00

ATLAS Level-0 Endcap Muon Trigger for HL-LHC

Speaker

Haruka Asada

11:00–11:30

Coffee break

11:30–11:45

Data Scouting and Data Parking with the CMS High level Trigger

Speaker

Swagata Mukherjee

11:45-12:00

Fast Online Trigger using FPGA-based Event Classification for the COMET Phase-I**Speaker**

Mr Yu Nakazawa

12:00-12:15

Implementation of the ATLAS trigger within the multi-threaded AthenaMT framework**Speaker**

Cenk Yildiz

12:15-12:30

Design and performance of the LHCb trigger and full real-time reconstruction in Run 2 of the LHC**Speaker**

Michel De Cian

12:30-12:45

ATLAS LAr Calorimeter Performance in LHC Run-2**Speaker**

Adriana Milic

12:45-13:00

Conclusions from TrackML the HEP Tracking Machine Learning challenge**Speaker**

Laurent Roger Igor Basara

13:00