

Session Program

Jul 10 - 17, 2019



EPS-HEP2019

Detector R&D and Data Handling

Ghent

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

Thu, July 11

9:00 AM

Detector R&D and Data Handling

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

9:00 – 9:15 AM Precision Timing with the CMS MIP Timing Detector

Speaker

Adolf Bornheim

9:15 – 9:30 AM

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

9:30 – 9:45 AM SciFi - A large Scintillating Fibre Tracker for LHCb

Speaker

Mauricio Feo

9:45 – 10:00 AM The new Inner Tracking System for the ALICE Upgrade

Speaker

Dr Yasser Corrales Morales

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

Speaker

Alina Kleimenova

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

Speakers

Dr Hua Ye, PXD-DEPFET Collaboration

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

Speaker

Adam Laszlo Gera

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

Speaker

Tom Hadavizadeh

11:00 – 11:30 AM Coffee break

11:30 – 11:45 AM

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

Speaker

Oskar Hartbrich

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

Speaker

Andrea Ferrero

12:00 - 12:15 PM

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

Ann Miao Wang

12:15 - 12:30 PM

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 PM

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

Simone Paoletti

12:45 - 1:00 PM

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

Maurizio Bonesini, Maurizio Bonesini, Maurizio Bonesini

1:00 PM

2:30 PM

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

2:30 - 2:45 PM

The PADME experiment**Speaker**

Dr Gabriele Chiodini

2:45 - 3:00 PM

Detector Performances Studies at Muon Collider**Speakers**

Donatella Lucchesi, Donatella Lucchesi

3:00 - 3:15 PM

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

Manabu Moritsu

3:15 - 3:30 PM

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

Benjamin Quilain

3:30 - 3:45 PM

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

Luis Manzanillas

3:45 - 4:00 PM

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

Barbara Clerbaux

4:00 – 4:30 PM **Coffee break**

4:30 – 4:45 PM

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

Speaker

Davide Zuolo

4:45 – 5:00 PM **4D particle tracking with Resistive AC-Coupled Silicon Detectors**

Speaker

Marco Mandurrino

5:00 – 5:15 PM

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

Speaker

Dr Mariana Petris

5:15 – 5:30 PM

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

Speaker

Andrea Gelmi

5:30 – 5:45 PM

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

Speaker

Peilian Liu

5:45 – 6:00 PM

Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector

Speaker

Lorenzo Rossini

6:00 – 6:15 PM

Reconstruction in an imaging calorimeter for HL-LHC

Speaker

Arabella Martelli

6:15 – 6:30 PM

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

Speaker

Imad Laktineh

6:30 PM

Fri, July 12

9:00 AM

Detector R&D and Data Handling

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

9:00 – 9:15 AM

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

Speaker

Biljana Mitreska

9:15 – 9:30 AM

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

Speaker

Savino Longo

9:30 – 9:45 AM

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

9:45 – 10:00 AM

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

Speaker

Cecile Sarah Caillol

10:00 – 10:15 AM

The ATLAS Hardware Track Trigger design towards first prototypes

Speaker

Francesca Pastore

10:15 – 10:30 AM

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

Speaker

Santiago Folgueras

10:30 – 10:45 AM

ATLAS Level-1 Endcap Muon Trigger for Run 3

Speaker

Tomoe Kishimoto

10:45 – 11:00 AM

ATLAS Level-0 Endcap Muon Trigger for HL-LHC

Speaker

Haruka Asada

11:00 – 11:30 AM

Coffee break

11:30 – 11:45 AM

Data Scouting and Data Parking with the CMS High level Trigger

Speaker

Swagata Mukherjee

11:45 AM - 12:00 PM

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

Mr Yu Nakazawa

12:00 - 12:15 PM

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

Cenk Yildiz

12:15 - 12:30 PM

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 PM

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

Adriana Milic

12:45 - 1:00 PM

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

Laurent Roger Igor Basara

1:00 PM