

Session Program

Jan 10 - 14, 2022



30th International Symposium on Lepton Photon Interactions at High Energies

R&D

Online only

Mon, January 10

4:15 PM

R&D: Poster session

Session | Location: Online only

16:15 - 16:16 **Precision Timing with the CMS MIP Timing Detector for HL-LHC**

Speaker

Bryan Cardwell

16:16 - 16:17 **CMS Drift Tube (DT) upgrade at High-Luminosity LHC**

Speaker

Muhammad Bilal Kiani

16:17 - 16:18

Detector Challenges of the strong-field QED experiment LUXE at the European XFEL

Speaker

John Hallford

16:18 - 16:19 **Study of GEM detectors and their applications to Imaging**

Speaker

Asar Ahmed

16:19 - 16:20 **Run-3 offline data processing and analysis at LHCb**

Speaker

Martina Ferrillo

16:22 - 16:23 **Scintillating sampling ECAL technology for the Upgrade II of LHCb**

Speaker

Federico Betti

16:23 - 16:24 **Implementation of large imaging calorimeters**

Speaker

Robert Ross Bosley

16:24 - 16:25

An intelligent Data Delivery Service (iDDS) for and beyond the ATLAS experiment

Speaker

Wen Guan

16:25 - 16:26

Measurement of the underground argon radiopurity for Dark Matter direct searches

Speakers

Ludovico Luzzi, Ludovico Luzzi

16:26 - 16:27 **Very forward calorimeters for future electron-positron colliders**

Speakers

Ivan Smiljanic, Ivan Smiljanic

16:27 - 16:28 **Slow control and data acquisition interface in the Mu2e experiment**

Speaker

Antonio Gioiosa

16:28 - 16:29

Studies of optical fibre and SiPM readout system for the Cylindrical Trigger Hodoscope in COMET Phase-I

Speaker

Yuki Fujii

16:29 - 16:30 **A High-Granularity Timing Detector for the ATLAS Phase-II upgrade**

Speaker

Hassnae El Jarrari

16:30 - 16:31

Simulation studies for the ATLAS track counting luminosity measurement

Speaker

Giulia Ripellino

16:31 - 16:32

Surface commissioning of the New Small Wheel upgrade project of the ATLAS Experiment

Speaker

Athina Kourkoumeli-Charalampidi

16:32 - 16:33 **Triggering in ATLAS in Run 2 and Run 3**

Speaker

Stefanie Morgenstern

16:33 - 16:34 **First Results of the 2021 FASER Calorimeter Test Beam**

Speaker

Charlotte Cavanagh

5:15 PM

Tue, January 11

1:50 PM

R&D: Parallel 1

Session | **Location:** Online only | **Convener:** Francisca Munoz Sanchez

13:50 - 14:00

FERS-5200: a distributed Front-End Readout System for multidetector arrays

Speaker

Yuri Venturini

14:00 - 14:20

ATLAS Upgrades

Speaker

Tony Affolder

14:20 - 14:40

A GPU High Level Trigger 1 for the upgraded LHCb detector

Speaker

Christina Agapopoulou

14:40 - 15:00

Challenges and novel reconstruction techniques for the CMS High Granularity Calorimeter for HL-LHC

Speaker

Shamik Ghosh

15:00 - 15:20

Boosting the discovery potential for the LHC Run 3 -- Improved Track Reconstruction for prompt and long-lived particles in ATLAS

Speaker

Julian Wollrath

15:20 - 15:40

Upgrade of the CSC Muon System for the CMS Detector at the HL-LHC

Speaker

Johan Sebastian Bonilla

15:40 - 16:00

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

Speaker

Hector Garcia Cabrera

4:00 PM

Wed, January 12

9:00 AM

R&D: Parallel 2

Session | **Location:** Online only | **Convener:** Evelina Mihova Gersabeck

09:00 - 09:20

Silicon pixel-detector R&D for future lepton colliders

Speaker

Katharina Dort

09:20 - 09:40

Cryogenic characterisation of Silicon Photomultipliers for future Dark Matter experiments

Speaker

Priyanka Kachru

09:40 - 10:00

Development, construction, qualification and assembly of the Mu2e electromagnetic calorimeter mechanical structures and composite materials

Speaker

Dr Daniele Pasciuto

10:00 - 10:20

A polystyrene-based scintillator production process involving additive manufacturing

Speaker

Stephen Dolan

10:20 - 10:40

Application of Quantum Artificial Intelligence / Machine Learning to High Energy Physics Analyses at LHC Using Quantum Computer Simulators and Quantum Computer Hardware

Speaker

Sau Lan Wu

10:40 - 11:00

A common software for future colliders: The Key4hep turnkey software stack

Speaker

Valentin Volk

11:00 AM

Fri, January 14

10:30 AM

R&D

Session | **Location:** Online only | **Convener:** Simone Donati

10:30 - 11:00 **Accelerators R&D**

Speaker

Dr Frank Zimmermann

11:00 - 11:30 **Detectors R&D**

Speaker

Dr Susanne Kuehn

11:30 - 12:00 **Software and computing R&D**

Speaker

Dr Graeme A Stewart

12:00 PM