

**Session Program**

**July 28, 2020 to August 6, 2020**

**ICHEP 2020**

***Operation, Performance and Upgrade of  
Present Detectors***

virtual conference

## Tue, July 28

3:30 PM

### Operation, Performance and Upgrade of Present Detectors: Session I - Premiere

**Session** | **Location:** virtual conference | **Conveners:** Stefania Beole, Sowjanya Gollapinni, Jiri Kroll

15:30 - 15:45 **THE LIGO-VIRGO OBSERVATION RUN 3 (APRIL 2019 - APRIL 2020)**

**Speaker**

Dr Nicolas Arnaud

15:45 - 16:00 **The AugerPrime Upgrade of the Pierre Auger Observatory.**

**Speaker**

Gabriella Cataldi

16:00 - 16:15 **The Mu2e Electromagnetic Calorimeter**

**Speaker**

Luca Morescalchi

16:15 - 16:30

**Construction and performance of 4-D CsI calorimeter for the  $\pi^0 \rightarrow \gamma\gamma$  search of KOTO experiment**

**Speaker**

Katsushige Kotera

16:30 - 16:45 **Analysis of the magnetic field in the Fermilab muon g-2 experiment**

**Speaker**

Saskia Charity

16:45 - 17:00 **Muon g-2 beam and spin systematic effects for Run-1**

**Speaker**

Dr Sudeshna Ganguly

17:00 - 17:15 **ALPIDE pixel detector for tracking in space.**

**Speaker**

Paolo Zuccon

17:15 - 17:20 **Coffee break**

17:20 - 17:35 **The MicroBooNE Experiment**

**Speaker**

Ralitsa Sharankova

17:35 - 17:50 **Construction, installation and operation of ProtoDUNE-SP**

**Speaker**

Stefania Bordoni

17:50 - 18:05 **Performance of photon detectors in ProtoDUNE-SP**

**Speaker**

Dante Totani

**18:05 - 18:20 Measurement of space charge effects in ProtoDUNE-SP****Speaker**

Michael Mooney

**18:20 - 18:30 Energy calibration of the ProtoDUNE-SP TPC****Speaker**

Richard Diurba

**18:30 - 18:45 The MCP based Large Area PMTs for Neutrino Detector****Speaker**

Sen Qian

**18:45 - 19:00 Performance of the SoLid reactor neutrino detector****Speaker**

Noe Roy

**19:00 - 19:05 Coffee break****19:05 - 19:20 The sPHENIX experiment at RHIC****Speaker**

Cameron Dean

**19:20 - 19:35 ALICE upgrades for Run 3****Speaker**

Stefano Matthias Panebianco

**19:35 - 19:50 Status of the Fast Interaction Trigger for ALICE Upgrade****Speaker**

Maciej Slupecki

**19:50 - 20:05 Performance of the LHCb detector in the Run 2****Speaker**

Martina Pili

**20:05 - 20:20 The LHCb Upgrade Programme for Run 3 and Run 4****Speaker**

Federico Alessio

**20:20 - 20:35 The LHCb VELO Upgrade****Speaker**

Peter Svihra

**20:35 - 20:50 The pixel vertex detector at Belle II****Speaker**

Felix Mueller

8:55 PM

## Wed, July 29

8:00 AM

### Operation, Performance and Upgrade of Present Detectors: Session I - Replay

**Session** | **Location:** virtual conference | **Convener:** Jiri Kroll

1:00 PM

3:30 PM

### Operation, Performance and Upgrade of Present Detectors: Session II - Premiere

**Session** | **Location:** virtual conference | **Conveners:** Alexandr Kuzmin, Jiri Kroll

15:30 - 15:45

#### Precision calorimetry at high luminosity: the CMS electromagnetic calorimeter from the LHC Run 2 to the HL-LHC

**Speaker**

Dario Soldi

15:45 - 16:00

#### ATLAS LAr Calorimeter Commissioning for LHC Run-3

**Speaker**

Pavol Strizenec

16:00 - 16:15

#### Performance of the ATLAS Tile Calorimeter

**Speaker**

Siarhei Harkusha

16:15 - 16:30

#### Performance of the ATLAS RPC detector and L1 Muon Barrel trigger at $\sqrt{s} = 13$ TeV

**Speaker**

Kunlin Han

16:30 - 16:45

#### Track-based muon system alignment of the CMS detector

**Speaker**

Hyunyong Kim

16:45 - 17:00

#### Small-Strip Thin Gap Chambers and electronics performance for the Muon Spectrometer Upgrade of the ATLAS Experiment

**Speaker**

Mohsen Naseri

17:00 - 17:15

#### Cosmic results with the final Micromegas sectors for the ATLAS Muon upgrade

**Speaker**

Gabriel Rabanal Bolanos

17:15 - 17:20

#### Coffee break

17:20 - 17:35

#### Luminosity measurement with the ATLAS experiment at the LHC

**Speaker**

Joseph William Carter

17:35 - 17:50

**CMS track reconstruction performance during Run 2 and developments for Run 3****Speaker**

Walaa Elmetenawee

17:50 - 18:05

**CMS electron and photon performance at Run 2 and prospects for Run 3****Speaker**

Livia Soffi

18:05 - 18:20

**CMS jet and missing transverse momentum performance at Run 2 and prospects for Run 3****Speaker**

Andrea Malara

18:20 - 18:35

**Tau identification exploiting deep learning techniques****Speakers**

Andrea Cardini, Andrea Cardini

18:35 - 18:50

**New jet tagging techniques at CMS****Speaker**

Dennis Schwarz

18:50 - 19:05

**Heavy flavour tagging in CMS in Run 2****Speaker**

Alessandro Calandri

19:05 - 19:10

**Coffee break**

19:10 - 19:25

**Flexible physics selections at 30 MHz****Speaker**

Victor Daussy-Renaudin

19:25 - 19:40

**Physics and throughput performance of the real-time reconstruction for the LHCb upgrade****Speaker**

Renato Quagliani

19:40 - 19:55

**Trigger efficiency measurement using  $e^+e^- \rightarrow \tau^+\tau^-$  events at Belle II****Speaker**

Petar Kevin Rados

19:55 - 20:10

**The ATLAS Inner Detector Trigger performance in pp collisions at 13 TeV during LHC Run 2****Speaker**

Mario Grandi

20:10 - 20:25 **The phase-1 upgrade of the ATLAS level-1 calorimeter trigger**

**Speaker**

Kate Whalen

20:25 - 20:40 **Triggering on Hadronic Signatures with the ATLAS Detector**

**Speaker**

Benjamin Taylor Carlson

20:40 - 20:55 **Preparing the ATLAS Trigger Software for Multi-threaded Operation**

**Speaker**

Mark Stockton

8:55 PM

## Thu, July 30

1:00 AM

### Operation, Performance and Upgrade of Present Detectors: Session II - Replay

**Session** | **Location:** virtual conference | **Convener:** Jiri Kroll

6:00 AM

8:00 AM

### Operation, Performance and Upgrade of Present Detectors: Session III - Premiere

**Session** | **Location:** virtual conference | **Conveners:**  
Prof. Prafulla Behera, Stefania Beole, Jiri Kroll, Anne Dabrowski

08:00 - 08:15

#### **MURMUR: a new low-noise experiment for the search of neutron-hidden neutron transitions in the context of braneworld scenarios**

**Speakers**

Ms Coraline STASSER, Dr Olivier Méplan

08:15 - 08:30

#### **Timepix3 as solid-state time-projection chamber in particle and nuclear physics**

**Speaker**

Benedikt Bergmann

08:30 - 08:45

#### **The Upgrade of the LHCb RICH Detector**

**Speaker**

Luca Minzoni

08:45 - 09:00

#### **Running Experience and Performance of the Novel Time of Propagation (TOP) Barrel PID Detector in the Belle II Experiment**

**Speaker**

Dr Oskar Hartbrich

09:00 - 09:15

#### **The Alignment of the ATLAS Forward Proton Detector**

**Speaker**

Jesse Liu

09:15 - 09:30

#### **The ATLAS Forward Proton Time-of-Flight Detector System**

**Speaker**

Karel Cerny

09:30 - 09:45

#### **Performance and upgrade of the Precision Proton Spectrometer and performance of proton reconstruction with the CMS experiment**

**Speaker**

Ada Solano

09:45 - 09:50

#### **Coffee break**

09:50 - 10:05

**Operational Experience and Performance with the ATLAS Pixel detector at the Large Hadron Collider at CERN****Speaker**

Soshi Tsuno

10:05 - 10:20

**Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector****Speaker**

Ben Nachman

10:20 - 10:35

**Tracker alignment of the CMS detector****Speaker**

Patrick Connor

10:35 - 10:50

**Material budget estimation of the CMS tracker with triplet method****Speaker**

Suvankar Roy Chowdhury

10:50 - 11:05

**Precision luminosity measurement with proton-proton collisions at the CMS experiment in Run 2****Speaker**

Joscha Knolle

11:05 - 11:20

**The Belle II diamond-detector for radiation monitoring and beam abort****Speaker**

Dr Yifan Jin

11:20 - 11:40

**Coffee break**

11:40 - 11:55

**The Belle II Experiment: Status and Prospects****Speaker**

Kodai Matsuoka

11:55 - 12:10

**Performance and background expectations of the Belle II pixel vertex detector at SuperKEKB****Speaker**

Slavomira Stefkova

12:10 - 12:25

**The Belle II Silicon Vertex Detector: Performance and Running Experience****Speaker**

Szymon Bacher

12:25 - 12:40

**The silicon strip tracking detector for the LHCb Upgrade****Speaker**

Dr Ina Carli

12:40 - 12:55

**Status and Future development of the Full Event Interpretation Algorithm at Belle II**



**Speaker**  
William Sutcliffe

12:55 - 13:10

**Track reconstruction efficiency measurement using  $e^+e^- \rightarrow \tau^+\tau^-$  events at Belle II**

**Speaker**  
Laura Zani

13:10 - 13:25 **B lifetimes at Belle II**

**Speaker**  
Cyrille Praz

1:25 PM

3:30 PM

8:30 PM

**Operation, Performance and Upgrade of Present Detectors: Session III - Replay**

**Session** | **Location:** virtual conference | **Convener:** Jiri Kroll

## Fri, July 31

8:00 AM

### Operation, Performance and Upgrade of Present Detectors: Session IV - Premiere

**Session** | **Location:** virtual conference | **Conveners:** Anne Dabrowski, Jiri Kroll

08:00 - 08:15 **Muon Identification and Performance in the ATLAS Experiment**

**Speaker**

Rustem Ospanov

08:15 - 08:30

**Performance of the reconstruction and identification of high-momentum muons collected with CMS in 13 TeV data**

**Speaker**

Carlo Battilana

08:30 - 08:45

**Commissioning and prospects of first GEM station at the CMS experiment**

**Speaker**

Giovanni Mocellin

08:45 - 09:00

**Large size multi-gap resistive Micromegas for the ATLAS New Small Wheel at CERN**

**Speaker**

Dimitris Fassouliotis

09:00 - 09:15

**Irradiation and Gas studies of Micromegas production chambers for the ATLAS New Small Wheel**

**Speaker**

Lorenzo Pezzotti

09:15 - 09:30

**Integration and commissioning of ATLAS New Small Wheel Micromegas detectors with electronics at CERN**

**Speaker**

Theodoros Vafeiadis

09:30 - 09:45

**The ATLAS New Small Wheel Simulation and Reconstruction Software and Detector Performance Studies**

**Speaker**

Chara Kitsaki

09:45 - 09:50 **Coffee break**

09:50 - 10:05 **Jet reconstruction and calibration in ATLAS**

**Speaker**  
Eva Hansen

10:05 - 10:20 **Tracking and flavor-tagging performance at ATLAS**

**Speaker**  
Carlo Varni

10:20 - 10:35

**Boosted object identification and their usage in searches for new physics in ATLAS**

**Speaker**  
Yi-lin Yang

10:35 - 10:50

**Real-time alignment, calibration, and software quality assurance for the LHCb upgrade**

**Speaker**  
Maria Aranzazu Oyanguren

10:50 - 11:05 **Triggering in the ATLAS Experiment**

**Speaker**  
Javier Montejo Berlingen

11:05 - 11:20

**CMS High Level Trigger performance in Run 2 and new developments for Run 3**

**Speaker**  
Federica Primavera

11:20 - 11:35 **Design and Performance of the Belle II High Level Trigger**

**Speaker**  
Markus Prim

11:35 - 11:40 **Coffee break**

11:40 - 11:55 **Projected ATLAS Electron and Photon Trigger Performance in Run 3**

**Speaker**  
Dr Fernando Monticelli

11:55 - 12:10

**Performance studies of the Run 3 jFEX algorithms in the ATLAS calorimeter trigger**

**Speaker**  
Elena Michelle Villhauer

12:10 - 12:25 **Real-time flavour tagging selection in ATLAS**

**Speaker**  
Carlo Varni

12:25 - 12:40 **The ATLAS Muon Trigger Design and Performance**

**Speaker**  
Yu Nakahama Higuchi

12:40 - 12:55 **ATLAS Level-1 Endcap Muon Trigger for Run-3**

**Speaker**  
Junpei Maeda

12:55 - 13:10 **Status and Performance of the Belle II DAQ System**

**Speaker**  
Oskar Hartbrich

13:10 - 13:25 **The Data Quality Monitoring in CMS experiment**

**Speaker**  
Andrius Kirilovas

1:25 PM

3:30 PM

8:30 PM

**Operation, Performance and Upgrade of Present Detectors: Session IV - Replay**

**Session** | **Location:** virtual conference | **Convener:** Jiri Kroll