

# **Monday 9 July**

11:00

### T1 - Online computing: S1

Session | Location: National Palace of Culture, Hall 3.1 | Convener: Adriana Telesca

11:00-11:15

The ToolDAQ DAQ software Framework and its use in the Hyper-K, E61 & ANNIE detectors

Speaker

Dr Benjamin Richards

11:15-11:30 The Continuously Running iFDAQ of the COMPASS Experiment

Speaker

Ondrej Subrt

11:30-11:45 The Data acquisition system of the NA62 experiment at CERN

Speaker

Mr Marco Boretto

11:45-12:00

Experience with Shifter Assistant: an intelligent tool to help operations of ATLAS TDAQ system in LHC Run 2

Speaker

Andrei Kazarov

12:00-12:15 Operational experience with the new CMS DAQ expert

Speaker

Dr Hannes Sakulin

12:15-12:30

Software-based data acquisition system for Level-1 end-cap muon trigger in ATLAS Run-3

Speaker

Kosuke Takeda

12:30 14:00

T1 - Online computing: S2

Session | Location: National Palace of Culture, Hall 3.1 | Convener: Clara Gaspar

14:00-14:15 LHCb MiniDAQ Control System

Speaker

Luis Granado Cardoso

14:15-14:30 A Web-based control and monitoring system for DAQ applications

Speaker

Alexey Anisenkov

14:30-14:45 The protoDUNE Single Phase Detector Control System

Speaker

Manuel Jesus Rodriguez Alonso

14:45-15:00

Software based control and monitoring of a hardware based track reconstruction system for the ATLAS experiment

### Speaker

Simone Sottocornola

15:00-15:15 Front-End Electronics Control and Monitoring for the LHCb Upgrade

### Speaker

Joao Vitor Viana Barbosa

#### 15:15-15:30

Status report on the architecture and future upgrades of the CMS **Electromagnetic Calorimeter Control and Safety Systems** 

### Speaker

Mr Diogo Di Calafiori

15:30-15:45 Towards the ALICE Online-Offline (O2) control system

### Speaker

Teo Mrnjavac

15:45-16:00 The online DQM of BESIII

### Speaker

Xiaobin Ji

# **Tuesday 10 July**

11:00

### T1 - Online computing: S3

Session | Location: National Palace of Culture, Hall 3.1 | Convener: Ryosuke Itoh

11:00-11:15

Simultaneous usage of the LHCb HLT farm for Online and Offline processing workflows

**Speaker** 

Joel Closier

11:15-11:30 Alignment and Calibration of the Belle II Detector

**Speaker** 

Tadeas Bilka

11:30-11:45

Spy-Agency service for monitoring of automated real-time calibration workflows and steering the injection of prompt reconstruction workflows at the CMS experiment

Speaker

Arun Kumar

11:45-12:00

LHCb full-detector real-time alignment and calibration: latest developments and perspectives

Speaker

Chris Burr

12:00-12:15 Data handling in the ALICE O2 event processing

Speaker

Matthias Richter

12:15-12:30

Improving the use of data quality metadata via a partnership of technologies and resources between the CMS experiment at CERN and industry

Speaker

Virginia Azzolini

12:30 14:00

T1 - Online computing: S4

Session | Location: National Palace of Culture, Hall 3.1 | Convener: Catrin Bernius

14:00-14:15

The design and performance of the ATLAS Inner Detector trigger in high pileup collisions at 13 TeV at the Large Hardon Collider

Speaker

Julie Hart Kirk

14:15-14:30

Kalman Filter track reconstruction on FPGAs for acceleration of the High Level Trigger of the CMS experiment at the HL-LHC

Speaker

Sioni Paris Summers

14:30-14:45 Fast Kalman Filtering: new approaches for the LHCb upgrade

Speaker

Placido Fernandez Declara

14:45-15:00

Fast Boosted Decision Tree inference on FPGAs for triggering at the LHC

Sioni Paris Summers

15:00-15:15

Comparison of Track Reconstruction Methods of the PANDA Experiment

Speaker

**Tobias Stockmanns** 

15:15-15:30 ATLAS Hardware based track-finding: Present and Future

Speaker

**Todd Michael Seiss** 

15:30-15:45

GPU-based Online Track Reconstructions for the ALICE TPC in Run 3 with **Continuous Read Out** 

Speaker

David Rohr

15:45-16:00 Quantum Associative Memory in HEP Track Pattern Recognition

Speaker

Illya Shapoval

# **Wednesday 11 July**

11:30

### T1 - Online computing: S5

Session | Location: National Palace of Culture, Hall 3.1 | Convener: Catrin Bernius

11:30-11:45 The Belle II Online Reconstruction and Software Trigger

#### Speaker

Thomas Hauth

11:45-12:00

The ATLAS Trigger in 2017 - improvements, performance and challenges

#### Speaker

Alex Christopher Martyniuk

12:00-12:15

Event reconstruction of free-streaming data for the RICH detector in the CBM experiment

**Speaker** 

Dr Semen Lebedev

12:15-12:30 Overview of the HL-LHC Upgrade for the CMS Level-1 Trigger

Speaker

Rick Cavanaugh

12:30-12:45

Implementation of the ATLAS trigger within the ATLAS Multi-Threaded Software Framework AthenaMT

Speaker

Stewart Martin-Haugh

12:45-13:00 A 30 MHz software trigger for the LHCb upgrade

Speaker

Rosen Matev

# **Thursday 12 July**

11:00 T1 - Online computing: S6 Session | Location: National Palace of Culture, Hall 3.1 | Convener: Ryosuke Itoh 11:00-11:15 Readout software for the ALICE integrated Online-Offline (O2) system Speaker Filippo Costa 11:15-11:30 FELIX based readout of the Single-Phase ProtoDUNE detector Speaker Enrico Gamberini 11:30-11:45 The CMS event-builder system for LHC run 3 (2021-23) Speaker Remi Mommsen 11:45-12:00 The Design of a Distributed Key-Value Store for Petascale Hot Storage in Data **Acquisition Systems** Speaker Dr Grzegorz Jereczek 12:00-12:15 Data distribution and load balancing for the ALICE Online-Offline (O2) system Speaker Gvozden Neskovic 12:15-12:30 The NaNet Project: Real-time Distributed Heterogeneous Stream Processing for the NA62 Low Level Trigger Speaker Alessandro Lonardo 12:30 14:00 T1 - Online computing: S7 Session | Location: National Palace of Culture, Hall 3.1 | Conveners: Clara Gaspar, Adriana Telesca 14:00-14:15 ALICE Overwatch: Online monitoring and data quality assurance using HLT data Speaker Raymond Ehlers 14:15-14:30 Highly extensible modular system for online monitoring of the ATLAS experiment Speaker Serguei Kolos

14:30-14:45 Presentation layer of CMS Online Monitoring System

Speaker

Mantas Stankevicius

14:45-15:00

Open Hardware and Application Specific Design for the monitoring system of the Belle II forward/backward electromagnetic calorimeter

Francesco Di Capua

15:00-15:15 DAQBroker - A general purpose instrument monitoring framework

Speaker

Antonio Dias

15:15-15:30

A scalable online monitoring system based on Elasticsearch for distributed data acquisition in CMS

Speaker

Dr Dainius Simelevicius