



# 24th International Conference on Computing in High Energy & Nuclear Physics

## Monday, 4 November 2019

### Track 1 – Online and Real-time Computing: Data acquisition (DAQ) - Riverbank R5 (11:00 - 12:30)

-Conveners: Chunhua Li

time	[id] title	presenter
11:00	[516] A novel centralized slow control and board management solution for ATCA blades based on the Zynq Ultrascale+ System-on-Chip	SANDER, Oliver
11:15	[458] DAQling: an open source data acquisition framework	GAMBERINI, Enrico
11:30	[456] DUNE DAQ R&D integration in ProtoDUNE Single-Phase at CERN	SIPOS, Roland
11:45	[121] FELIX: commissioning the new detector interface for the ATLAS trigger and readout system	PANDURO VAZQUEZ, William
12:00	[175] Integration of custom DAQ Electronics in a SCADA Framework	GRANADO CARDOSO, Luis
12:15	[330] Zero-deadtime processing in beta spectroscopy for measurement of the non-zero neutrino mass	LAROQUE, Benjamin

### Track 1 – Online and Real-time Computing: Monitoring and control systems - Riverbank R5 (14:00 - 15:30)

-Conveners: Chunhua Li

time	[id] title	presenter
14:00	[192] AliECS: a New Experiment Control System for the ALICE Experiment	MRNJAVAC, Teo
14:15	[97] DAQExpert - the service to increase CMS data-taking efficiency	GLADKI, Maciej Szymon
14:30	[117] ATLAS Operational Monitoring Data Archival and Visualization	SOLOVIEV, Igor
14:45	[12] Data quality monitors of vertex detectors at the start of the Belle II experiment	KODYS, Peter KODYS, Peter
15:00	[337] Scalable monitoring data processing for the LHCb software trigger	PETRUCCI, Stefano
15:15	[86] The ALICE data quality control system	KONOPKA, Piotr

## Tuesday, 5 November 2019

### **Track 1 – Online and Real-time Computing: Trigger farms and networks - Riverbank R5 (11:00 - 12:30)**

-Conveners: Steven Schramm

time	[id] title	presenter
11:00	[235] Assessment of the ALICE O2 readout servers	COSTA, Filippo
11:15	[96] CMS Event-Builder Performance on State-of-the-Art Hardware	MOMMSEN, Remi
11:30	[288] Results from the CBM mini-FLES Online Computing Cluster Demonstrator	DE CUVELAND, Jan
11:45	[373] Performance of Belle II High Level Trigger in the First Physics Run	Prof. ITOH, Ryosuke
12:00	[198] Design of the data distribution network for the ALICE Online-Offline (O2) facility	NESKOVIC, Gvozden
12:15	[263] Network simulation of a 40 MHz event building system for the LHCb experiment	PISANI, Flavio

### **Track 1 – Online and Real-time Computing: Real-time analysis - Riverbank R5 (14:00 - 15:30)**

-Conveners: Steven Schramm

time	[id] title	presenter
14:00	[46] 40 MHz Level-1 Trigger Scouting for CMS	SAKULIN, Hannes
14:15	[335] An express data production chain in the STAR experiment	KISEL, Ivan
14:30	[125] Trigger level analysis technique in ATLAS for Run 2 and beyond	BOVEIA, Antonio
14:45	[391] Ingest pipeline for ASKAP	Dr VORONKOV, Maxim
15:00	[49] Low Latency, Online Processing of the High-Bandwidth Bunch-by-Bunch Observation Data from the Transverse Damper Systems of the LHC	SODEREN, Martin
15:15	[200] JANA2 Framework for event based and triggerless data processing	LAWRENCE, David

### **Track 1 – Online and Real-time Computing: Detectors, performance, and analysis - Riverbank R5 (16:30 - 18:00)**

-Conveners: Yu Nakahama Higuchi

time	[id] title	presenter
16:30	[419] Strategies for detecting long-lived particles at LHC experiments	Mr JASHAL, Brij Kishor
16:45	[340] Recording and reconstructing 10 billion unbiased B meson decays in CMS to probe lepton flavour universality	BAINBRIDGE, Robert John
17:00	[65] The CMS electromagnetic calorimeter workflow	ROVELLI, Chiara Ilaria
17:15	[191] Time measurement with the SND electromagnetic calorimeter	MELNIKOVA, Natalya
17:30	[260] Track reconstruction with PANDA at FAIR	PAPENBROCK, Michael
17:45	[118] The ATLAS Muon, Electron and Photon Trigger Performance	SAFARZADEH SAMANI, Batool

# Thursday, 7 November 2019

## **Track 1 – Online and Real-time Computing: Hardware acceleration and hardware machine learning - Riverbank R5** (11:00 - 12:30)

-Conveners: Jennifer Ngadiuba

time	[id] title	presenter
11:00	[76] Heterogeneous online reconstruction at CMS	Dr BOCCI, Andrea
11:15	[574] Level-1 track finding with an all-FPGA system at CMS for the HL-LHC	JAMES, Thomas Owen
11:30	[112] Fast and resource-efficient Deep NN on FPGAs for the Phase-II L0 Muon Barrel Trigger of the ATLAS Experiment	GIAGU, Stefano
11:45	[371] Fast inference using FPGAs for DUNE data reconstruction	RODRIGUEZ ALONSO, Manuel Jesus
12:00	[262] Highly Performant, Deep Neural Networks with sub-microsecond latency on FPGAs for Trigger Applications	SCHMITT, Christian
12:15	[176] hls4ml: deploying deep learning on FPGAs for L1 trigger and Data Acquisition	LONCAR, Vladimir

## **Track 1 – Online and Real-time Computing: Future upgrades - Riverbank R5 (14:00 - 15:30)**

-Conveners: Jennifer Ngadiuba

time	[id] title	presenter
14:00	[234] Mass storage interface LTSM for FAIR Phase 0 data acquisition	Dr ADAMCZEWSKI-MUSCH, Joern
14:15	[114] ATLAS Trigger and Data Acquisition Upgrades for the High Luminosity LHC	KOPELIANSKY, Revital
14:30	[498] L0TP+: the Upgrade of the NA62 Level-0 Trigger Processor	VICINI, Piero
14:45	[113] New Jet Feature Extraction and Topological Processor modules for ATLAS Phase-I Upgrade: from design to commissioning	KAHRA, Christian
15:00	[47] The CMS Trigger upgrade for the HL-LHC	TOMEI FERNANDEZ, Thiago
15:15	[100] The CMS Data Acquisition System for the Phase-2 Upgrade	DOBSON, Marc