

PM2021 - 15th Pisa Meeting on Advanced Detectors - Edition 2022

Friday, 27 May 2022

Front End, Trigger, DAQ and Data Mangement - Poster session (15:30 - 19:00)

-Conveners: Martin Grossmann; Lodovico Ratti

[id] title	presenter	board
[6] Design of the WaveDAQ system	RITT, Stefan	
[30] Machine Learning for Real-Time Processing of ATLAS Liquid Argon Calorimeter Signals with FPGAs	FAURE, Robert	
[39] Demonstration System of the HGTD Peripheral Electronics Board (PEB) for ATLAS Phase II Upgrade	HAN, Liangliang	
[49] The fragmentation trigger of the FOOT experiment	GALLI, Luca	
[67] A new Neural Network architecture for Time Series Classification	INCARDONA, Simone	
[80] Hog: an easy system to handle HDL on a git-based repository	GONNELLA, Francesco	
[83] The phase-1 upgrade of the ATLAS level-1 calorimeter trigger	RASSLOFF, Damir	
[87] The TileCal PreProcessor Interface with the ATLAS Global Data Acquisition System at the HL-LHC	CERVELLO DUATO, Antonio	
[90] Front End Electronics Module Design for the Schwarzschild-Couder Telescope (SCT) Camera	BITOSSI, Massimiliano	
[91] Upgrade of the first-level muon trigger for the ATLAS experiment at the HL-LHC	CIERI, Davide	
[92] Quality control tests on the new frontend electronics for the Schwarzschild-Couder Telescope	TRIPODO, Giovanni	
[96] The DAQPATH readout system of the Serenity boards for the CMS Phase-II Upgrade	PROSPERI, Paolo	
[363] Silicon Photonic Devices for Optical Data Readout in High-Energy Physics Detectors	PALLA, Fabrizio	
[442] Charge sensitive preamplifier design optimization for low-pressure Micromegas gaseous detector operations	PILO, Federico	
[43] Machine Learning Techniques for Energy Reconstruction in JUNO experiment	GAVRIKOV, Arsenii	
[380] VMM3a ASIC as a potential front end electronics solution for future Straw Trackers	Mr BAUTIN, Vitaly	
[379] Status of the data acquisition, trigger, and slow control systems of the Mu2e experiment at Fermilab	GIOIOSA, Antonio	
[149] The ATLAS Forward Proton Real-Time Time-of-Flight Trigger and Trigger Decoder for LHC Run 3	ZICH, Jan	
[150] Mu2e Event Visualization Development	CHITHIRASREEMADAM, Namitha	
[153] The monolithic ASIC for the high precision preshower detector of the FASER experiment at the LHC	VICENTE BARRETO PINTO, Mateus	
[171] The front-end electronics upgrade of the CMS ECAL barrel	COSSIO, Fabio	

[174] 28 nm CMOS analog front-end channels for future pixel detectors	GAIONI, Luigi	
[183] Stand-alone track reconstruction on GPU at LHCb	CALEFICE, Lukas	
[187] Studies of the CBC3.1 readout ASIC for CMS 2S-modules	HALL, Geoff	
[194] High resolution filtering and digitization system for cryogenic bolometric detectors	CARNITI, Paolo	
[196] A variable gain front end electronics for drift chamber readout	PANAREO, Marco	
[198] H2GCROC: Design and Performance of a Dedicated Very Front-End ASIC for SiPM readout of the CMS High Granularity Calorimeter.	GONZÁLEZ MARTÍNEZ, José David	
[213] Implementation of the trigger system of the ICARUS-T600 detector at Fermilab	TORRETTA, Donatella	
[220] Timespot1: an ASIC for high-resolution timing and high-rates in 28-nm CMOS technology	LAI, Adriano	
[233] Implementation of the Cluster Counting and Timing technique on FPGA for the reduction of transferred data and stored information.	CHIARELLO, Gianluigi	
[235] The electronic set-up for the scintillation light detection system of ICARUS-SBN at Fermilab	RASELLI, Gian Luca	
[240] Design and tests of multi-Gbps radiation hard SERDES circuits in 65 nm CMOS technology	PALLA, Fabrizio	
[264] Progress towards readout chip for pixels with timing capabilities	SENGER, Matias	
[269] Description and performance results of the trigger logic of TUS and Mini-EUSO to search for Ultra-High Energy Cosmic Rays from space	BERTAINA, Mario Edoardo	
[270] GWitchHunters - Machine Learning and Citizen Science to improve the performance of Gravitational Wave detectors	RAZZANO, Massimiliano	
[275] A Modular Data Acquisition System for Reconstruction of Radiation Dose Spatial Distribution in Radiotherapy Treatment Planning	JURGIELEWICZ, Pawel	
[290] A 0.22 nV/ $\sqrt{\text{Hz}}$, 4.5 mW/channel cryogenic amplifier for large arrays of SiPMs in liquid Argon	PESSINA, Gianluigi Ezio	
[293] EUSO-SPB2 Fluorescence Telescope trigger test within the EUSO@TurLab Project	BATTISTI, Matteo	
[312] Development of the Trigger system for the Mu2e experiment at Fermilab	PEZZULLO, Gianantonio	
[318] Operation of the SRS using the SAMPA chip: first results	CORTEZ, André	
[320] FELIX: readout upgrade for the ATLAS Trigger DAQ system in HL-LHC	WU, Mengqing	
[321] FPGA-based techniques to improve fast track finding in the ATLAS Trigger	KALDERON, Will	
[323] A fast simulation to evaluate the impact of tracking performance on multi-(b)jet and multi-lepton triggers at HL-LHC	TESTA, Marianna	
[343] TASS—Trigger and Acquisition System Simulator. An interactive graphical tool for DAQ and trigger design	DE PEDIS, Daniele	
[353] Wafer level test of the readout chip of the CMS Inner Tracker for HL-LHC	GRIPPO, Michael	
[364] The Neutron Veto DAQ system for XENONnT experiment	MASTROIANNI, Stefano	
[376] Medical imaging data analysis using 3D deep learning models towards improving the individual treatment plans	KALECIŃSKA, Kamila	
[392] A Full Detector Description Using Neural Network Driven Simulation.	Dr RATNIKOV, Fedor	
[401] Improved muon decay simulation with Geant4 and McMule	GURGONE, Andrea	

[411] The JUNO large PMT readout electronics	SERAFINI, Andrea	
[416] The ATLAS New Small Wheel sTGC Pad Trigger	BAUCE, Matteo	
[438] Developing a Cluster-Finding Algorithm with Vivado HLS for the CBM-TRD	SCHLEDT, David	
[439] Design and qualification of the Mu2e electromagnetic calorimeter electronic system	SPINELLA, Franco	
[440] High bandwidth commercial digitizer for hostile environment	PEDRESCHI, Elena	
[381] Data Pre-Processing with High-Level-Synthesis and Dataflow Programming using HLS C++ Dataflow Template Library	JANSON, Thomas	
[182] The DAQ and clock distribution system of CMS MIP Timing Detector	SIMKINA, Polina	
[406] Evaluation of data acquisition system based on FPGA and continuous readout for the J-PET detector	KAPŁON, Łukasz	