TWEPP 2018 Topical Workshop on Electronics for Particle Physics

Tuesday, 18 September 2018

Posters: Posters session - 1 ASIC - FBS 0.01/0.02 (Feestzaal) (17:20 - 18:50)

presenter	board
PRINZIE, Jeffrey	
NODARI, Benedetta	
WANG, Tianyang	
SCARFI', Simone	
XIAO, Le	
REN, Jiayi	
Mr VANCURA, Pavel	
Mr TSUTSUMI, Yuki	
RESTA, Federica	
MANGIAGALLI, Luca	
SANMUKH, Anand	
CASTRO FONSECA, Jose Pedro	
Dr AN, Mangmang	
Mr GARDINER, Thomas	
MOSTAFANEZHAD, Isar	
WEBER, Alena Larissa	
PRATHAPAN, Mridula	
Mr HUANG, Xing	
Dr WEI, Wei	
RICHTER, Robert	
	PRINZIE, Jeffrey NODARI, Benedetta WANG, Tianyang SCARFI', Simone XIAO, Le REN, Jiayi Mr VANCURA, Pavel Mr TSUTSUMI, Yuki RESTA, Federica MANGIAGALLI, Luca SANMUKH, Anand CASTRO FONSECA, Jose Pedro Dr AN, Mangmang Mr GARDINER, Thomas MOSTAFANEZHAD, Isar WEBER, Alena Larissa PRATHAPAN, Mridula Mr HUANG, Xing Dr WEI, Wei

KREMASTIOTIS, Iraklis
MAZZA, Giovanni
PORTER, John
Dr GÓMEZ FERNÁNDEZ, Sergio
Dr DEPTUCH, Grzegorz
MATAKIAS, Dimitrios
POPA, Stefan
XIAO, Le
Dr GAO, Chaosong
SONZOGNI, Mauro

Posters: Posters session - 1 Optoelectronics and Links - FBS 0.01/0.02 (Feestzaal) (17:20 - 18:50)

-Conveners: Ken Wyllie

[id] title	presenter	board
[181] MULTI-GIGABIT PHOTONIC TRANSCEIVERS FOR HARSH ENVIRONMENT APPLICATIONS	THOMSON, Ross	
[73] Precision Clock Distribution studies for timing in phase II upgrade of the CMS experiment	BAUSSON, Pierre-Anne	
[162] Thermal characterisation of the Versatile Link PLUS Transceiver	SOOS, Csaba	
[176] New LpGBT-FPGA IP: Simulation model and first implementation	MENDEZ, Julian Maxime	
[32] In-situ Radiation Damage Studies of VCSELs and p-i-n diodes in the ATLAS SemiConductor Tracker	POWNALL, Gavin	
[164] Concept, design and verification of components for an integrated on-detector silicon photonic multi-channel transmitter unit	· ZHANG, Yunlong	

Posters: Posters session - 1 Programmable Logic, Design Tools and Methods - FBS 0.01/0.02 (Feestzaal) (17:20 - 18:50)

[id] title	presenter	board
[80] Remote control unit of the LHC injector complex BLM system	CALVO GIRALDO, Eva	
[143] An automated pipeline for continuous integration of FPGA firmware and software for the LHCb Run3 upgrade	DURANTE, Paolo	
[55] Ethernet-based slow control system for parallel configuration of FPGA-based front-end boards	Dr ZABOŁOTNY, Wojciech	
[43] GBT oriented firmware for Data Processing Boards for CBM	Dr ZABOŁOTNY, Wojciech	

[98] FPGA Based Time Measurement for the MRPC Detector	ZHANG, Jie	
[128] FPGA Implementation of an Artificial Neural Network for Subatomic Physics Experiment Particles Recognition	ZHAO, Ruiguang	
[134] Machine learning: hit time finding with a neural network	THALMEIER, Richard	
[172] A possible implementation of a detector specific extension of the FELIX firmware for the ITk Pixel subdetector	DULSEN, Carsten	

Thursday, 20 September 2018

Posters: Posters session - 2 Other - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

-Conveners: Ken Wyllie

[id] title	presenter	board
[100] GSPS: a 1 GS/s sampling digitiser designed with interleaved architecture for the LaBr3 detectors of the FAMU experiments.	TRAVAGLINI, Riccardo	
[106] A bipolar shaping amplifier for low background alpha/beta counters with silicon detectors.	Mr THYS, Sam	
[125] Optimizing Time Resolution for Large Area Silicon Photomultipliers	Dr GÓMEZ FERNÁNDEZ, Sergio	

Posters: Posters session - 2 Power, Grounding and Shielding - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

-Conveners: Ken Wyllie

[id] title	presenter	
[174] Hybrid GaN and CMOS integrated module radiation hard DC-DC converter	MIKKOLA, Esko	
[22] High-Voltage Silicon JFET for HV Multiplexing for the ATLAS MicroStrip Staves	Dr GIACOMINI, Gabriele	

Posters: Posters session - 2 Production, Testing and Reliability - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

-Conveners: Ken Wyllie

[id] title	presenter	board
[48] Front-end hybrids for the strip-strip modules of the CMS Outer Tracker Upgrade	GADEK, Tomasz	
[37] MrRobot: an automated ASIC testing rig	Mr CASAJUS RAMO, Adrian	
[35] Production and Quality Assurance of Mu2e Silicon PhotoMultipliers	MORESCALCHI, Luca	
[124] Quality control and reliability testing of the front end electronics production for the upgrade of the LHCb RICH detectors	NERI, Ilaria	
[148] Front-end Electronics of the Forward Strip Detector for the ATLAS HL-LHC Upgrade	GARCIA ARGOS, Carlos	
[142] First Double-Sided End-Cap Strip Module for the ATLAS High-Luminosity Upgrade	WIIK-FUCHS, Liv	

Posters: Posters session - 2 Radiation Tolerant Components and Systems - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

[id] title	presenter	board
[133] Characterization of Soft Error Rate against Memory Elements Spacing and Clock Skew in Logic with Triple Modular Redundancy in a 65nm Process	Dr MIRYALA, Sandeep	
[89] The Upgraded Microstrip Silicon Sensor Characterisation Facility of the University of Sheffield	KOURLITIS, Evangelos	
[97] Delay Locked Loop for use in a time-to-digital converter with quick recovery and low hysteresis	Mr VAN BOCKEL, Bjorn	

[103] Radiation tests and production test strategy for the ALICE TOF readout upgrade board	Dr FALCHIERI, Davide
[11] ATLAS Tile Calorimeter Link Daughter Board	Mr VALDES SANTURIO, Eduardo
[21] Investigation of Single Event Latch-up effects in the ALICE SAMPA ASIC	MAHMOOD, Sohail Musa
[111] Radiation tolerant conditioning electronics for vacuum measurements	Mr CHATZIGEORGIOU, Nikolaos

<u>Posters: Posters session - 2 Systems, Planning, Installation, Commissioning and Running Experience</u> - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

-Conveners: Ken Wyllie

[id] title	presenter	board
[132] The WaveCatcher systems: a family of powerful and low cost digitizers.	Mr BRETON, Dominique	
[127] ATLAS Phase-II-Upgrade Pixel Demonstrator Read-out	BUSCHMANN, Eric	
[119] Novel Si-Sensor technology for high resolution and high repetition-rate experiments at accelerator facilities	PATIL, Meghana Mahaveer	
[116] ATLAS Phase-II-Upgrade Pixel Data Transmission Development	GROSSE-KNETTER, Joern	
[177] New 63U ATCA rack: thermal performances and integration challenge	KALINOWSKI, Michal Tomasz	
[4] The CMS phase 2 ECAL front end electronics upgrade	BAUSSON, Pierre-Anne	
[144] Design of the Back end card for the JUNO experiment	YANG, yifan	
[156] The PaDiWa-AMPS2 TDC and QDC front-end electronics for the HADES Electromagnetic Calorimeter	Mr ROST, Adrian	
[64] The Embedded Local Monitor Board upgrade proposals	NICPON, Kamil Szymon	
[117] CMS ECAL Upgrade Front End card: design and prototype test results	SINGOVSKI, Alexander	
[102] Design and Test of the Analog to Digital Converter Unit for the JUNO Readout Electronics	HU, Jun	
[151] Design and performance of CMS Muon Triple-GEM Detector Control System	DE LENTDECKER, Gilles	
[153] CMS Drift Tubes Readout Phase 1 Upgrade	NAVARRO TOBAR, Alvaro	
[26] Electronics Developments for Phase-2 Upgrade of CMS Drift Tubes	TRIOSSI, Andrea	
[71] Level-1 Data Driver Card - A high bandwidth radiation tolerant aggregator board for detectors	GKOUNTOUMIS, Panagiotis	
[84] FPC design and testing for the High-Granularity Timing Detector for the Phase II upgrade of the ATLAS calorimeter system	ROBLES MANZANO, Maria	

Posters: Posters session - 2 Trigger - FBS 0.01/0.02 (Feestzaal) (17:00 - 18:30)

[id] title	presenter	board
[93] Towards a heterogeneous High Level Trigger farm for CMS	Dr BOCCI, Andrea	
[62] Input Mezzanine Board for the Fast Tracker(FTK) at ATLAS	MITANI, Takashi	
[180] Development and testing of a Trigger Processor Card based on a Kintex Ultrascale FPGA	MALLIOS, Stavros	

[70] Study of Retina Algorithm on FPGA for Fast Tracking	DENG, Wendi
[19] New development in the CMS ECAL Level-1 trigger system to meet the challenges of LHC Run 2	THIANT, Floris
[145] Ultraflex: An ATCA Prototype Board for the CMS Phase 2 Tracker Upgrade	ARDILA, Luis
[15] A Lightweight First-Level Muon Track Trigger for Future Hadron Collider Experiments	CIERI, Davide
[24] The CMS Level-1 muon triggers for the LHC Run II	HEIKKILAE, Jaana
[88] A novel 4D fast track finding system using precise space and time information of the hit	GANDINI, Paolo