

Session Program

12-23 Oct 2020



22nd Virtual IEEE Real Time Conference

Poster session C-01

Wednesday 14 October

16:05

Poster session C-01

Session | Location:

16:05–16:06 **The threshold voltage generation for CMS ETL readout ASIC**

Speaker
Ms ZHANG, Li

16:06–16:07 **Qualification of radiation tolerance with fault-injection**

Speaker
ERSDAL, Magnus Rentsch

16:07–16:08

Discrete Component Front End and Acquisition system for Hyperkamiokande

Speaker
LAVITOLA, Luigi

16:08–16:09

A Novel Spectroscope with Machine Learning at the Edge for Real-Time Position Sensitivity in Thick LaBr3 Crystal

Speaker
Mr DI VITA, Davide

16:09–16:10 **Beam Tests of the Data Acquisition of the Mu3e Experiment**

Speaker
KÖPPEL, Marius

16:10–16:11

A 10 Gbps Driver/Receiver ASIC and Optical Modules for Particle Physics Experiments

Speaker
Mr HUANG, Xing

16:11–16:12

An FPGA-based Trigger System with Online Track Recognition in COMET Phase-I

Speaker
Mr NAKAZAWA, Yu

16:12–16:13

Development of multi-channel high time resolution DAQ system for TOT-ASIC

Speaker
SATO, setsuo

16:13–16:14

Investigation of depth-dose profile of electron radiation in continuous and discontinuous materials based on Monte Carlo simulations and measurements

Speaker
Mr CAO, Van Chung

16:14-16:15

A System-on-a-Chip based Front-end electronics control system for the HL-LHC ATLAS Level 0 muon trigger**Speaker**

TANAKA, Aoto

16:15-16:16

The study of calibration process for the hybrid pixel array detector of HEPS-BPIX**Speaker**

Mrs DING, ye

16:16-16:17

High-Speed Image Acquisition System for Real-time Plasma Control on EAST**Speaker**

HANG, Qin

16:17-16:18

DAQ Control Signal Codec for Time of Flight AFP Detector**Speaker**

ZICH, Jan

16:18-16:19

Digital Trigger Module for Cherenkov Time of Flight Detector**Speaker**

ZICH, Jan

16:19-16:20

LLRF Controller for High Current Cyclotron Based BNCT System**Speaker**

Mr XIAOLIANG, Fu

16:20-16:21

Control of cyclotron vertical deflector for Proton Therapy**Speaker**

Prof. YIN, Zhiguo

16:21-16:22

A digital approach of beam phase measurement and regulation system**Speaker**

Prof. YIN, Zhiguo

16:22-16:23

Development of Payload and Platform for Gamma-ray Energy Measurement and Terrestrial Gamma-ray Flash detection**Speaker**

Dr PHAN, Hiên

16:23-16:24

EPICS-Based Accelerator Magnet Control System for the SC200 Protontherapy Facility**Speaker**

WANG, Cheng

16:24-16:25

How to improve the performance of the fast timing detector**Speaker**

MA, Lishuang

16:25-16:26 Archiving system for EAST PF Power Supply**Speaker**

Mrs HE, Shiyong

16:26-16:27

OPC UA for integration of industrial components in a large scientific project**Speaker**

Dr PORZIO, Luca

16:27-16:28 40 Gbps Readout interface STARE for the AGATA Project**Speaker**

Mr KARKOUR, NABIL

16:28-16:29

Real-time disruption prediction in the PCS of EAST tokamak using a random forest model**Speaker**

Ms HU, Wenhui

16:29-16:30

Robust control design for multi-input multi-output plasma shape control on EAST tokamak using H_∞ synthesis**Speaker**

Dr LIU, Lei

16:30-16:31

A reconfigurable digital dataflow controller for large-scale pixel arrays with power-efficient RISC-V core**Speaker**

FANG, Ni

16:31-16:32

A calculation software for β (LSC)- γ coincidence counting**Speaker**

ZHONG, Ke

16:32-16:33

An 8.8-ps RMS Precision Time-to-Digital Converter Implemented in a Cyclone 10 LP FPGA with Automatic Temperature Correction**Speakers**

Mr SONG, Zhipeng, Dr PENG, Qiyu

16:34-16:35

The Electronics Design of Magnetic Field Active Control System in KTX Reversed Field Pinch**Speaker**

Mr SONG, Shuchen

16:35-16:36

Performance of the High Level Trigger System at CMS in LHC Run-2**Speaker**

CHOU DHURY, Somnath

16:36-16:37

Radiation tolerance of online trigger system for COMET Phase-I

Speaker

DEKKERS, Sam

16:38–16:39

Hi'Beam: a pixelated on-line beam monitor for carbon-ion therapy facility**Speaker**

Mr ZHANG, Honglin

16:39–16:40

Trigger-DAQ and Slow Controls Systems in the Mu2e Experiment**Speaker**

Dr GIOIOSA, Antonio

16:40–16:41

Performance evaluation of new parallel VME readout system for unstable nuclear physics**Speaker**

TAKAHASHI, Hiroyuki

16:42–16:43

Preliminary Design of a FADC Readout System for the Alpha/Beta Discrimination in a Large Area Plastic Scintillation Detector**Speaker**

WEN, Jingjun

16:43–16:44

Analysis and Verification of Relation between Digitizer's Sampling Properties and Energy Resolution of HPGe Detectors**Speaker**

WANG, Tianhao

16:44–16:45

Design of a configurable column-parallel ADC in the MAPS for real-time beam monitoring**Speaker**

ZHAO, Chengxin

16:45–16:46

Optimized low-precision multiply-and-accumulate for neural computing in pixel sensor applications**Speaker**

WANG, Hui

16:46–16:47

A Design of Clock and Timing System Prototype for Hard X-ray FEL Facility**Speaker**

Dr GU, Jinliang

16:56