

Session Program

25-29 Sept 2015

10th International "Hiroshima" Symposium on the Development and Application of Semiconductor Tracking Detectors, Xi'an, China

After dinner POSTER session, with drinks: (All presenters are requested/encouraged to attend their posters; All participants are requested to participate the session, with drinks!)

International Conference Center (also named as ["Nanyang Hotel"](http://www.jdnyhotel.com/index.php))
[Xi'an Jiaotong University](http://en.xjtu.edu.cn/), Xi'an, China

Saturday 26 September

19:00

After dinner POSTER session, with drinks: (All presenters are requested/encouraged to attend their posters; All participants are requested to participate the session, with drinks!): POSTER size: 80cm (wide)×120cm (high)

Session | **Location:** International Conference Center (Nanyang Hotel), Multi-function Hall | **Conveners:** Stephen McMahon, Marcela Mikestikova

19:00-19:01 POSTERS: Simulations and Manufacturing:

19:01-19:02 3D simulation and modeling of ultra-fast 3D silicon detectors

Speaker

Ms Manwen Liu

19:02-19:03 Modeling and simulation of spiral Si Drift Detector

Speaker

Ren Xiao

19:03-19:04

The new low-capacitance silicon pixel detector performance simulation

Speaker

Xiong Bo

19:04-19:05

3D simulation of electrical characteristics for detector of combining silicon biasing adaptor with silicon drift detector

Speaker

Yuyun Li

19:05-19:06

A Novel CMOS Electrode Readout Scheme for High Purity Germanium Detectors

Speaker

Ms Yan Fan

19:06-19:07 POSTERS: Pixels (including CCD's) - X-ray imaging:

19:07-19:08 Development of X-ray Imaging system with SOI Pixel Detectors

Speaker

Ryutaro Nishimura

19:08-19:09

Soft X-ray performance of Back-illumination type of the Kyoto's X-ray Astronomical SOIPIXs

Speaker

Dr Makoto Itou

19:09-19:10

Reducing the cross-talk between the sensor and circuit layers in the Kyoto's X-ray Astronomical SOIPIXs

Speaker

Dr Shunichi Ohmura

19:10-19:11 POSTERS: Pixels (including CCD's) - Charged particle tracking:**19:11-19:12 Development of planar pixel modules for HL-LHC****Speaker**

Anna Macchiolo

19:12-19:13**CMS Pixel Upgrade for the Phase I: Module Production and Qualification****Speaker**

Mercedes Minano Moya

19:13-19:14 CMS FPix sensor study for phase I upgrade**Speaker**

Dr Kai Yi

19:14-19:15**Test-beam evaluation of newly developed n⁺-in-p planar pixel sensors aiming for use in high radiation environment****Speaker**

Kimihiro Kimura

19:15-19:16 A Novel Source-Drain Follower for Monolithic Active Pixel Sensors**Speaker**

Chaosong Gao

19:16-19:17**Study of built-in amplifier performance on HV-CMOS sensor for the ATLAS Phase-II Strip Tracker Upgrade****Speaker**

Zhijun Liang

19:17-19:18 POSTERS: Strips:**19:18-19:19****Bonding Study towards Quality Assurance of the Belle-II Silicon Vertex Detector Modules****Speaker**

Mr Kookhyun Kang

19:19-19:20**Embedded pitch adapters: a high-yield interconnection solution for strip sensors****Speaker**

Miguel Ullan Comes

19:20-19:21**Noise evaluation of silicon strip super-module with ABCN250 readout chips for ATLAS detector upgrade at high luminosity LHC****Speaker**

Kazuki Todome

19:21-19:22 POSTERS: New materials, New technologies:**19:22-19:23 Performance evaluation of newly developed SrI2(Eu) scintillator**

Speaker
Miho Takabe

19:23-19:24

Beam Test Results of the Dependence of Signal Size on Incident Particle Rate in Diamond Pixel and Pad Detectors

Speaker
Felix Caspar Bachmair

19:24-19:25

Semiconductor simulation of charge collection mechanism in CVD diamond detector

Speaker
Li Yong

19:25-19:26 POSTERS: Electronics:**19:26-19:27 The VeloPix ASIC for the LHCb VELO Upgrade**

Speaker
Xabier Cid Vidal

19:27-19:28 Results on 3D interconnection from AIDA WP3

Speaker
Hans-Guenther Moser

19:28-19:29

Development of a low-noise, area efficiency, 4-order readout circuit for silicon pixel detectors

Speaker
Dr JIA WANG

19:29-19:30

Design of Low Noise and Low Area Preamp-Shaper in Readout ASICs for CdZnTe Semiconductor X-ray and γ -ray Detectors

Speaker
Dr Jia WANG

19:30-19:31

A 4 x 8 Gbps VCSEL Array Driver ASIC and Integration with A Custom Array Transmitter Module for the LHC Front-end Transmission

Speaker
Dr Di Guo

19:31-19:32

Development of Low-noise High-speed Analog ASIC for X-ray CCD Cameras and Wide-band X-ray Imaging Sensors

Speaker
Dr Hiroshi Nakajima

19:32-19:33

A low-latency and low overhead encoder ASIC for the serial data transmission in ATLAS LAr calorimeter**Speaker**

Le Xiao

19:33-19:34

POSTERS: Radiation damage, Environmental monitoring:

19:34-19:35

Compensation for radiation damage of SOI pixel detector via tunneling**Speaker**

Dr Miho Yamada

19:35-19:36

Characteristics and Total Ionizing Dose Compensation of Double Silicon-on-Insulator Integration Type Sensor**Speaker**

Mari Asano

19:36-19:37

Laser Irradiation Experimental Studies on DDR3 for Xilinx Zynq-7010 SoC Microzed**Speaker**

Mrs Shuhuan Liu

19:37-19:38

proton radiation damage test studies on Si MCZ detector**Speaker**

Mrs Shuhuan Liu

19:38-19:39

Degradation Enhancement of Gate-controlled Lateral PNP Bipolar Transistors Induced by Mixed Irradiation of Neutron and Gamma**Speaker**

Ms Chenhui Wang

19:39-19:40

The Effects of Gamma Irradiation on Neutron Sensitivity of Lateral PNP Bipolar Transistors: Investigations and Simulations**Speaker**

Ms Chenhui Wang

19:40-19:41

Synergistic Effect of Mixed Neutron and Gamma Irradiation on Bipolar Operational Amplifier OP07**Speaker**

Mr Yan Liu

19:41-19:42

Comparison of Single Event Effects on 28-nm SoC Under Different Radiation Environments**Speaker**

Yao Zhang

19:42-19:43

Single Event Effects Studies on 28-nm SoC Induced by Low Energy Proton Irradiation**Speaker**

Yao Zhang

19:43-19:44

Modeling and Simulation of Radiation Effects on Si PIN Photodetectors Induced by Neutron Beams and γ Ionization Pulses**Speaker**

Dr zujun wang

19:44-19:45

Aging and Environmental Tolerance of Optical Transmitter for the ATLAS Phase-I upgrade at LHC**Speaker**

Suen Hou

19:45-19:46

POSTERS: Applications in High Energy Physics, Space, Medical, Material sciences:

19:46-19:47

Prototypes and system test stands for the Phase 1 upgrade of the CMS pixel detector**Speaker**

Satoshi Hasegawa

19:47-19:48

Impact Parameters Simulation for the Turkish Accelerator Center Particle Factory Tracker System**Speaker**

Ilhan Tapan

19:48-19:49

Pre-clinical Results with the Proton CT Head Scanner**Speaker**

Hartmut Sadrozinski

19:49-19:50

Study of a Detector System for High-Energy Astrophysical Objects Using a Combination of Plastic Scintillator and MPPC**Speaker**

Tatsuya Nakaoka

19:50-19:51

Proton Single Event Effects testing of Xilinx Zynq-7010 System-on Chip**Speaker**

Xuecheng Du

19:51-19:52

Soft Error Evaluation and Vulnerability Analysis in Xilinx Zynq-7010 System-on Chip System**Speaker**

Xuecheng Du

19:52-19:53

Evaluation of image quality for FPD based low dose mobile C-arm CT system**Speaker**

Dr Bo Kyuyng Cha

19:53-19:54

X-ray performance evaluation of a wafer-scale CMOS flat panel imager for applications in medical imaging and nondestructive testing**Speaker**

Bo Kyung Cha

19:54-19:55

Investigation of radiation dose and image quality in flat detector-based fluoroscopy and cone beam CT system**Speaker**

Bo Kyung Cha

19:55-19:56

Development and Verification of Signal Processing System of Avalanche Photo Diode for the Active Shields onboard ASTRO-H**Speaker**

Masanori Ohno

19:56-19:57

Modeling the Response Function for Soft X-ray Imager onboard ASTRO-H Satellite**Speaker**

Shota Inoue

19:57-19:58

Soft X-ray quantum efficiency of X-ray CCD onboard ASTRO-H**Speaker**

Takayoshi Kohmura

21:00

Monday 28 September

20:30

21:30

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