

Session Program

10-15 Dec 2017

**11th International "Hiroshima" Symposium on
the Development and Application of
Semiconductor Tracking Detectors (HSTD11)
in conjunction with 2nd Workshop on SOI
Pixel Detectors (SOIPIX2017) at OIST,
Okinawa, Japan**

POSTER

Okinawa Institute of Science and Technology Graduate University (OIST), Conference Center
OIST, Onna, Okinawa 904-0495, Japan

Sunday 10 December

20:00

POSTER: Virtual slot to list the posters. Poster sessions are during/using the coffee/tea/lunch breaks from Monday to Thursday. Poster size (max.): A0 (841x1189 mm²) in portlait.

Session |

Location: Okinawa Institute of Science and Technology Graduate University (OIST), Conference Center, OIST, Onna, Okinawa 904-0495, Japan

20:00–20:01

Study of Silicon drift sensor for Gamam-ray Compton Camera

Speaker

Mr Fumiya Imazato

20:01–20:02

Fabrication of silicon-supported germanium blocked impurity band detectors for infrared astronomy

Speaker

Takahiro ISHIIMARU

20:02–20:03

Pixelated CdZnTe detector based on Topmetal-IIa sensor

Speaker

Ms Yan Fan

20:03–20:04

Process Quality Control of Large-Scale Silicon Sensor Productions for Future HEP Experiments

Speaker

Ms Viktoria Hinger

20:04–20:05

The Impact of Incorporating Shell-corrections to Energy Loss in Silicon

Speaker

Ms Fuyue Wang

20:05–20:06

Signal simulation under the bias rail in n⁺-in-p pixel sensors before and after irradiation

Speaker

Yoshinobu Unno

20:06–20:07

Dictionary-learning based image deblurring for improving performance in nondestructive testing

Speaker

Mr Guna Kim

20:07–20:08

Optimization of bias rail implementations for segmented silicon sensors

Speaker

Daniel Schell

20:08–20:09

Simulation Study of a Pixelated Silicon Sensor on High Resistivity Integrated with Field Effect Transistor**Speaker**

Dr Hyeyoung Lee

20:09–20:10

TCAD simulation of Radiation Damage Effects on LHCb Velo and Operations in Run-II**Speaker**

Kazuyoshi Carvalho Akiba

20:10–20:11

Modeling the transient effects of ^{60}Co γ rays in CIS imaging system by Monte Carlo method based on Geant4**Speaker**

Mr Xue Yuanyuan

20:11–20:12

3D-Si single sided sensors for the innermost layer of the ATLAS pixel upgrade**Speaker**

Dr Giulio Pellegrini

20:12–20:13

Development of highly compact digital pixels for the vertex detector of the future e^+e^- collider**Speaker**

Dr Yang Zhou

20:13–20:14

Ultimate position resolution of pixel clusters with binary readout for particle tracking**Speaker**

Ms Fuyue Wang

20:14–20:15

A Monolithic Active Pixel Sensor prototype for the CEPC vertex detector**Speaker**

Dr Ying ZHANG

20:15–20:16

Investigation of modified ATLAS pixel implantations**Speaker**

Andreas Gisen

20:16–20:17

Performance of CMOS pixel sensor prototypes in AMS H35 and aH18 technology for the ATLAS ITk upgrade**Speaker**

Moritz Kiehn

20:17–20:18

New Readout Strategies of CMOS Pixel Sensors Dedicated for High Energy Physics Experiments

Speaker

Dr Xiaomin WEI

20:18–20:19

A simulation system for signal readout of CMOS pixel sensors in high energy physics experiments**Speaker**

Mr Bo LI

20:19–20:20

Development of pixel modules for the forward region of the ATLAS Tracker Upgrade**Speaker**

Craig Buttar

20:20–20:21

Cadmium Telluride (CdTe) X-ray detectors with different passivation dielectrics**Speaker**

Mrs Akiko Gädga

20:21–20:22

Radiation damage status of the ATLAS silicon strip detectors**Speaker**

Taka Kondo

20:22–20:23

Studying signal collection in the punch-through protection area of a silicon micro-strip sensor using a micro-focused X-ray beam**Speaker**

Luise Poley

20:23–20:24

Investigation of the impact of mechanical stress on the properties of silicon strip sensors**Speaker**

Martin Stegler

20:24–20:25

Testbeam results on pick-up in sensors with embedded pitch adapters**Speaker**

Laura Rehnisch

20:25–20:26

Study of n-on-p sensors breakdown in presence of dielectrics placed on top surface**Speaker**

Vitaliy Fadeyev

20:26–20:27

Design of the first full size ATLAS ITk Strip sensor for the endcap region**Speaker**

Carlos Lacasta Llacer

20:27-20:28

Assembly and Electrical Tests of the First Full-size Forward Module for the ATLAS ITk Strip Detector**Speaker**

Carlos Garcia Argos

20:28-20:29

Prototype Strip Barrel Modules for the ATLAS ITk Strip Detector**Speaker**

Peter Phillips

20:29-20:30

Gotthard-II: A ultra-fast Silicon Microstrip Detector with on Chip digital Image Memory**Speaker**

Dr Xintian Shi

20:30-20:31

A 3.2 Gbps Serial Link Transmitter in 0.18 μm CMOS Technology for CMOS Monolithic Active Pixel Sensors Application**Speaker**

Le Xiao

20:31-20:32

Two low-power optical data transmission ASICs for the ATLAS liquid argon calorimeter readout upgrade**Speaker**

Mr Le Xiao

20:32-20:33

Development of a Multi-Channel Silicon Strip Particle Detector using the Slew Rate Limited ToT ASIC for High-Sensitivity HERDA System**Speaker**

Ms Mizuki Uenomachi

20:33-20:34

Development of a cryogenic readout circuit based on FD-SOI CMOS for a far-infrared astronomical image sensor**Speaker**

Dr Koichi Nagase

20:34-20:35

Radiation Tolerant RF-LDMOS Transistors, Integrated into a 0.25 μm SiGe-BICMOS Technology**Speaker**

Dr Roland Sorge

20:35-20:36

FLAME readout ASIC for luminosity detector in future linear collider**Speaker**

Marek Idzik

20:36-20:37

A Track Finder with Associative Memories and FPGAs for the L1 Trigger of the CMS experiment at HL-LHC

Speaker

Roberto Rossin

20:37–20:38

A Novel Pixel Region Architecture for Pixel detector at HL-LHC: the Central Buffer Architecture of RD53a prototype**Speaker**

Andrea Paterno

20:38–20:39

TIGER, a front-end ASIC for timing and energy measurement with radiation detectors**Speaker**

Rivetti Angelo

20:39–20:40

Modeling Radiation Damage to Pixel Sensors in the ATLAS Detector**Speaker**

Dr Gilberto Giugliarelli

20:40–20:41

Comparison of transient response characteristics in the CIS detector irradiated by gamma rays and X rays**Speaker**

Prof. Zujun Wang

20:41–20:42

The transient degradation of neutron irradiation on CMOS image sensor: experiments and simulations**Speaker**

Mr Xue Yuanyuan

20:42–20:43

Correlation between Radiation Damage and Electrical Characteristics of the Proton-irradiated Silicon PN Diode**Speaker**

Dr Sy Minh Tuan HOANG

20:43–20:44

Enhanced Effects of Neutron Displacement Damage on Total Ionizing Dose Degradation in SOI MOSFET and Gate-controlled Lateral PNP Bipolar Transistor**Speaker**

Ms Chenhui Wang

20:44–20:45

Study of damages induced on ATLAS silicon by fast extracted and intense proton beam irradiation**Speaker**

Andrea Gaudiello

20:45–20:46

Radiation damage evaluation of the CCD detector induced by high energy protons**Speaker**

Prof. Zujun Wang

20:46–20:47

Dark-Current Estimation Method for CMOS Image Sensor in Mixed Radiation Environment**Speaker**

Mrs xiaomin Wei

20:47–20:48

Final system test results of the DEPFET based Belle II pixel detector PXD**Speaker**

Ladislav Andricek

20:48–20:49

Construction and Commissioning of the CMS Phase 1 Pixel Detector**Speaker**

Miaoyuan Liu

20:49–20:50

Alignment of the upgraded CMS pixel detector**Speaker**

Matthias Schroeder

20:50–20:51

Development of a MAPS detector prototype for the BESIII inner drift chamber upgrade**Speaker**

Dr Mingyi Dong

20:51–20:52

A multi-channel PCI Express readout board for fast readout of large pixel detectors**Speaker**

Alessandro Gabrielli

20:52–20:53

Novel technique for luminosity measurement using 3D pixel modules in the ATLAS detector.**Speaker**

Peilian Liu

20:53–20:54

Layout overview and developments for the upgrade of the inner tracker of the ATLAS experiment for the High-Luminosity LHC**Speaker**

Peter Phillips

20:54–20:55

Construction of the new silicon microstrips tracker for the Phase-II ATLAS detector**Speaker**

Zhijun Liang

20:55–20:56

Construction and beam-tests of silicon-tungsten and scintillator-SiPM modules for the CMS High Granularity Calorimeter for HL-LHC

Speaker

Yung-Wei Chang

20:56–20:57 Calibration of the CMS Preshower detector in Run1 and Run2**Speaker**

Long Hoa Cao Phuc

20:57–20:58 Coincidence method to reduce Si-PM (MPPC) dark counts**Speaker**

Prof. Fukazawa Yasushi

20:58–20:59**Event selection technique of multi-layer Si-CdTe Compton camera onboard Hitomi****Speaker**

Dr Masanori Ohno

20:59–21:00 Performance Study of Large CsI(Tl) Scintillator with MPPC Readout**Speaker**

Kento Torigoe

21:00–21:01**Development of a Fabry-Perot spectrometer with high-spatial and spectral resolutions aboard a balloon-borne telescope for far-infrared astronomy****Speaker**

Hiroki Maeda

21:01–21:02**Arcseconds and Sub-Arcseconds Imaging with Multi Image X-ray Interferometer Modules for Small Satellites****Speaker**

Prof. Kiyoshi Hayashida

21:02–21:03 Development of optical devices with Subwavelength Structure**Speaker**

Keita Yamamoto

21:03–21:04**Feasibility Study of Si/CZT Compton Camera Imaging in Breast Cancer Detection using Monte Carlo Simulation****Speaker**

Youngjin Lee

21:04–21:05**Development of simple proton CT system with novel MCS correction methods****Speaker**

Ms Miho Takabe

21:05–21:06 Fast Timing Monolithic Silicon Pixel Sensor for TOF-PET**Speaker**

Daiki Hayakawa

21:06-21:07

Comparison of X-ray image quality of TFT and CMOS flat-panel detector for mobile C-arm system**Speaker**

Prof. Chang-Woo Seo

21:07-21:08

Optimization of X-ray image acquisition and reconstruction for C-arm CBCT system with flat-panel detector**Speaker**

Prof. Chang-Woo Seo

21:08-21:09

Tests of thin Low-Gain Avalanche Detectors for characterization of therapeutic proton beams**Speaker**

Dr Nicolo' Cartiglia

21:09-21:10

A High-Granularity Timing Detector (HGTD) in ATLAS: Performance at the HL-LHC**Speaker**

Corentin Allaire

21:10-21:11

A timing detector for the SHiP experiment**Speaker**

Christopher Betancourt

21:11-21:12

A high angular resolution silicon microstrip beam telescope for crystal channeling studies**Speaker**

Geoff Hall

21:12-21:13

Studies of uniformity of 50 um UFSD sensors at the Fermilab test beam**Speaker**

Artur Apresyan

21:13-21:14

Detection of High Flux Synchrotron Radiation Based on Diamond Detector for HEPS**Speaker**

Dr ZHENJIE LI

21:14-21:15

Signals from fluorescent materials on the surface of silicon micro-strip sensors**Speaker**

Dennis Sperlich

21:15-21:16

Optical transceiver in miniature form factor for radiation hazard applications**Speaker**

Dr S. Hou

21:16-21:17

Development of CVD Diamond Detectors and Performance of Neutron Testing**Speaker**

Dr Sy Minh Tuan HOANG

21:17-21:18

Digital Electromagnetic Calorimetry for future colliders**Speaker**

Tony Price

21:18-21:19

Development of a System for Luminosity and Abort at the LH-LHC based on polycrystalline CVD diamond**Speaker**

Bojan Hiti

21:19-21:20

High Spatial Resolution Small Angle X-ray Scattering Experiments using the SOPHIAS Detector**Speaker**

Dr Hideaki Takagi

21:20-21:21

Application of a monolithic SOI pixel detector to evaluation of strength of industrial materials**Speaker**

Prof. Toshihiko Sasaki

21:21-21:22

Improvements of Grating-based X-ray Phase Contrast Imaging with a Microfocus X-ray Source by a SOI Pixel Detector, SOPHIAS**Speaker**

Ryo Hosono

21:22-21:23

Linear mode reach through APD for X-ray imaging in 0.2 μ m SOI-CMOS technology**Speaker**

Ryutaro Hamasaki

21:23-21:24

Proton Radiation Damage Experiment for X-ray SOI Pixel Detectors**Speaker**

Mr Keigo Yarita

21:24-21:25

X-ray response evaluation in subpixel level for X-ray SOI pixel detectors**Speaker**

Mr Kousuke Negishi

21:25-21:26

Design and Development of an Event-driven SOI Pixel Detector for X-ray Astronomy**Speaker**

Dr Ayaki Takeda

21:26-21:27

Evaluation of Kyoto's Event-Driven X-ray Astronomical SOI Pixel Sensor with a Large Imaging Area**Speaker**

Mr Hideki Hayashi

21:27-21:28

Investigation of Soft X-ray Performance of Kyoto's Event-Driven X-ray Astronomical SOI Pixel Sensor, XRPIX**Speaker**

Mr Sodai Harada

21:28-21:29

The ground experiment for development of Multi Image X-ray Interferometer Modules**Speaker**

Tomoki Kawabata

21:29-21:30

The general performance of source-follower and charge-preamplifier SOI pixel detectors**Speaker**

Roma Bugiel

21:30-21:31

Compensation for Radiation Damage to SOI Pixel Detector via Tunneling**Speaker**

Miho Yamada

21:31-21:32

A monolithic mid-infrared image sensor with SOI technology**Speaker**

Dr Takehiko Wada

21:32-21:33

R&D status of SOI based pixel detector with 3D stacking readout**Speaker**

Toru Tsuboyama

22:00