

19th International Workshop on Radiation Imaging Detectors

Report of Contributions

Contribution ID: 1

Type: **not specified**

Particle range monitoring and verification methods in hadrontherapy

Tuesday 4 July 2017 10:00 (30 minutes)

Primary author: BISOGNI, Maria Giuseppina (University and INFN Pisa)

Presenter: BISOGNI, Maria Giuseppina (University and INFN Pisa)

Session Classification: Invited

Contribution ID: 3

Type: **not specified**

A compressed sensing X-ray camera with a multilayer architecture

Wednesday 5 July 2017 14:00 (1 minute)

Presenter: WANG, Zhehui (Los Alamos National Laboratory)

Session Classification: Poster Session II

Contribution ID: 5

Type: **not specified**

Development of a hemispherical RMC (H-RMC) system for imaging spatial distribution of radiation sources

Monday 3 July 2017 15:52 (1 minute)

Presenter: NA, Minho (Seoul National University of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 6

Type: **not specified**

Progress on 3D integration technology for Medipix3RX chip

Monday 3 July 2017 15:53 (1 minute)

Presenter: SARAJLIC, Milija (DESY)

Session Classification: Poster Session I

Contribution ID: 7

Type: **not specified**

Characterising the High Energy Response of Timepix Detectors

Monday 3 July 2017 15:54 (1 minute)

Presenter: GEORGE, Stuart (University of Houston)

Session Classification: Poster Session I

Contribution ID: 8

Type: **not specified**

PantherPix3 hybrid pixel gamma ray detector for radio-therapeutic applications

Wednesday 5 July 2017 14:50 (1 minute)

Presenter: NEUE, Gordon (Czech Technical University in Prague)

Session Classification: Poster Session II

Contribution ID: 9

Type: **not specified**

Development of Near-UV Silicon Photomultipliers at National Nanofab Center for PET/MR Application

Monday 3 July 2017 15:56 (1 minute)

Presenter: LIM, Kyung Taek (Korea Advanced Institute of Science and Technology)

Session Classification: Poster Session I

Contribution ID: **10**

Type: **not specified**

Diamond Membranes as Position Sensitive X-ray Detector

Monday 3 July 2017 15:57 (1 minute)

Presenter: DESJARDINS, Kewin (Synchrotron SOLEIL)

Session Classification: Poster Session I

Contribution ID: 11

Type: **not specified**

Radiation hardness study of semi-insulating GaAs detectors against 5 MeV electrons

Monday 3 July 2017 15:58 (1 minute)

Presenter: SAGATOVA, Andrea (Slovak University of Technology in Bratislava)

Session Classification: Poster Session I

Contribution ID: 12

Type: **not specified**

Compact 3D core-shell diode array for high performance particle detector & imaging sensor applications

Monday 3 July 2017 15:59 (1 minute)

Presenter: JIA, Guobin (Leibniz Institute of Photonic Technology)

Session Classification: Poster Session I

Contribution ID: 13

Type: **not specified**

Surface damage characterization of FBK devices for High Luminosity LHC (HL-LHC) operations

Monday 3 July 2017 16:00 (1 minute)

Presenter: MOROZZI, Arianna (University of Perugia)

Session Classification: Poster Session I

Contribution ID: 14

Type: **not specified**

Dynamical and Steady State Photo-Hall Effect Deep Level Spectroscopy in High Resistive p-(CdMn)Te

Monday 3 July 2017 16:01 (1 minute)

Presenter: MUSIENKO, Artem (Charles University)

Session Classification: Poster Session I

Contribution ID: 16

Type: **not specified**

Quantitative evaluation method of the threshold adjustment performances of hybrid photon counting pixel detectors

Wednesday 5 July 2017 14:02 (1 minute)

Presenter: MEDJOUBI, Kadda (Synchrotron SOLEIL)

Session Classification: Poster Session II

Contribution ID: 17

Type: **not specified**

Simulation of energy spectrum in GEM detector from an X-ray quantum

Wednesday 5 July 2017 14:03 (1 minute)

Presenter: MALINOWSKI, Karol (Institute of Plasma Physics and Laser Microfusion)

Session Classification: Poster Session II

Contribution ID: **18**

Type: **not specified**

Image quality performances evaluation in ptychography imaging technique

Wednesday 5 July 2017 14:04 (1 minute)

Presenter: MEDJOUBI, Kadda (Synchrotron SOLEIL)

Session Classification: Poster Session II

Contribution ID: 19

Type: **not specified**

Precise 3-D localization of double-photon emitting isotopes using advanced Compton imaging towards double photon emission CT (DPECT)

Wednesday 5 July 2017 14:05 (1 minute)

Presenter: YOSHIHARA, Yuri (The University of Tokyo)

Session Classification: Poster Session II

Contribution ID: 20

Type: **not specified**

Two-stage Polymeric Surface Passivation of (CdZn)Te Crystals

Monday 3 July 2017 16:02 (1 minute)

Presenter: VASYLCHENKO, Igor (Charles Univeristy)

Session Classification: Poster Session I

Contribution ID: 21

Type: **not specified**

Simulations of depleted CMOS sensors for high-radiation environments

Monday 3 July 2017 16:03 (1 minute)

Presenter: LIU, Jian (Shandong University)

Session Classification: Poster Session I

Contribution ID: 22

Type: **not specified**

First tests of Timepix detectors based on semi-insulating GaAs matrix of different pixel size

Monday 3 July 2017 16:04 (1 minute)

Presenter: KUBANDA, David (Institute of Electrical Engineering, Slovak Academy of Sciences)

Session Classification: Poster Session I

Contribution ID: 23

Type: **not specified**

Imaging performance of Timepix detector based on semi-insulating GaAs

Monday 3 July 2017 16:05 (1 minute)

Presenter: ZATKO, Bohumir (Institute of Electrical Engineering, Slovak Academy of Sciences)

Session Classification: Poster Session I

Contribution ID: 24

Type: **not specified**

Evaluation of Timepix detectors with thick CdTe sensors for gamma-camera applications

Monday 3 July 2017 16:06 (1 minute)

Presenter: PROCZ, Simon (FMF Freiburg Materials Research Center)

Session Classification: Poster Session I

Contribution ID: 26

Type: **not specified**

Photo-Hall Effect Spectroscopy in High-Resistivity Cd(Zn)Te Single Crystals

Monday 3 July 2017 16:08 (1 minute)

Presenter: MORAVEC, Pavel (Charles University)

Session Classification: Poster Session I

Contribution ID: 27

Type: **not specified**

Photodiode area effect on X-ray CMOS APS Performance

Monday 3 July 2017 16:09 (1 minute)

Presenter: KIM, Giyoon (Korea Advanced Institute of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 28

Type: **not specified**

Development of Avalanche Photodiode Array based on SOI Technology

Monday 3 July 2017 16:10 (1 minute)

Presenter: HAMASAKI, Ryutaro (SOKENDAI)

Session Classification: Poster Session I

Contribution ID: 29

Type: **not specified**

Space charge generation in CdZnTe radiation detectors characterized by Laser-induced Transient Current Technique

Monday 3 July 2017 16:11 (1 minute)

Presenter: PIPEK, Jindrich (Charles University)

Session Classification: Poster Session I

Contribution ID: 30

Type: **not specified**

GaAs:Cr X-ray sensors noise characteristics investigation by means of amplitude spectrum analysis

Monday 3 July 2017 16:12 (1 minute)

Presenter: LOZINSKAYA, Anastasiya (Tomsk State University)

Session Classification: Poster Session I

Contribution ID: 31

Type: **not specified**

Influence of formation conditions of Pt Schottky barriers on the energy resolution of particle detectors based on VPE GaAs

Monday 3 July 2017 16:13 (1 minute)

Presenter: TRIFONOVA, Ekaterina (National University of Science and Technology MISIS)

Session Classification: Poster Session I

Contribution ID: 32

Type: **not specified**

Self-biased fast neutron detector based on VPE GaAs surface-barrier sensor with polyethylene converter

Monday 3 July 2017 16:14 (1 minute)

Presenter: BARYSHNIKOV, Fedor (National University of Science and Technology MISIS)

Session Classification: Poster Session I

Contribution ID: 33

Type: **not specified**

**Development of Stable and sensitivity
Semiconductor Detector for NDT Radiation Dose
Energy Detection Based on the Mixture material of
PbI₂ and PbO**

Monday 3 July 2017 16:15 (1 minute)

Presenter: HEO, Ye Ji (Inje University)

Session Classification: Poster Session I

Contribution ID: 34

Type: **not specified**

Investigation of Gd and B4C neutron converters on Timepix3 detector

Monday 3 July 2017 16:16 (1 minute)

Presenter: KRAPOHL, David (Mid Sweden University)

Session Classification: Poster Session I

Contribution ID: 35

Type: **not specified**

Avalanche photodiodes based on GaAs/AlGaAs - the detectors for 4th generation light sources

Monday 3 July 2017 16:17 (1 minute)

Presenter: STEINHARTOVA, Tereza (Universita degli studi di Trieste)

Session Classification: Poster Session I

Contribution ID: 36

Type: **not specified**

Operation of 100 micron thick GEM in Krypton-CO₂ mixtures

Monday 3 July 2017 16:18 (1 minute)

Presenter: AMARO, Fernando (University of Coimbra)

Session Classification: Poster Session I

Contribution ID: 37

Type: **not specified**

The stand-alone computation engine for the GEM detector based acquisition system for the WEST tokamak - the architecture and preliminary tests

Monday 3 July 2017 16:19 (1 minute)

Presenter: KRAWCZYK, Rafal (Warsaw University of Technology)

Session Classification: Poster Session I

Contribution ID: 38

Type: **not specified**

Development of the Electronic Personal Dosimeter System based on CsI(Tl) and Si PIN detector

Monday 3 July 2017 16:20 (1 minute)

Presenter: PARK, Kyeongjin (Korea Advanced Institute of Science and Technology)

Session Classification: Poster Session I

Contribution ID: **39**

Type: **not specified**

The new MYTHEN-III detector prototype

Monday 3 July 2017 16:21 (1 minute)

Presenter: ANDRAE, Marie (Paul Scherrer Institut)

Session Classification: Poster Session I

Contribution ID: 40

Type: **not specified**

Ultra low noise STSCL logic standard cell library for nuclear detector front end readout ASICs

Monday 3 July 2017 16:22 (1 minute)

Presenter: NEUE, Gordon (Czech Technical University in Prague)

Session Classification: Poster Session I

Contribution ID: 41

Type: **not specified**

Hybrid Pixel Detector for XRD and EDXRF

Monday 3 July 2017 16:23 (1 minute)

Presenter: NYGARD, Einar (ENXENSE AS)

Session Classification: Poster Session I

Contribution ID: 42

Type: **not specified**

Fast reset of the silicon microstrip and gas electron multiplier readout chain in the presence of leakage current

Monday 3 July 2017 16:24 (1 minute)

Presenter: ZUBRZYCKA, Weronika (AGH University of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 43

Type: **not specified**

A fully depleted CMOS pixel sensors for soft X-rays detection at synchrotron light source

Monday 3 July 2017 16:27 (1 minute)

Presenter: KACHEL, Maciej (Universite de Strasbourg)

Session Classification: Poster Session I

Contribution ID: 44

Type: **not specified**

Gotthard-II: A 4.5 MHz Silicon Microstrip Detector for the European X-ray Free-Electron Laser

Monday 3 July 2017 16:28 (1 minute)

Presenter: ZHANG, Jiaguo (Paul Scherrer Institut)

Session Classification: Poster Session I

Contribution ID: 45

Type: **not specified**

Compact and portable X-ray imager system using Medipix3RX

Monday 3 July 2017 16:29 (1 minute)

Presenter: GARCIA-NATHAN, Tomas Bartolome (The University of Manchester)

Session Classification: Poster Session I

Contribution ID: 46

Type: **not specified**

Three Radiation Resistant Techniques against Single Event Effect for SAR-ADC Design

Monday 3 July 2017 16:26 (1 minute)

Presenter: LEE, Yongseok (Korea University)

Session Classification: Poster Session I

Contribution ID: 47

Type: **not specified**

CSA-ADC Front-End ASIC for CPG Radiation Detector

Monday 3 July 2017 16:30 (1 minute)

Presenter: LEE, Yongseok (Korea University)

Session Classification: Poster Session I

Contribution ID: 48

Type: **not specified**

Development of a technique based on DCDS for CCD readout

Wednesday 5 July 2017 14:49 (1 minute)

Presenter: CRUZ DE LA TORRE, Carlos (CIEMAT)

Session Classification: Poster Session II

Contribution ID: 49

Type: **not specified**

Characterization of pixel sensor designed in 180 nm SOI CMOS technology

Monday 3 July 2017 16:31 (1 minute)

Presenter: BENKA, Tomas (Czech Technical University in Prague)

Session Classification: Poster Session I

Contribution ID: 50

Type: **not specified**

Design of an Analog Pixel's Front-End Active Feedback for VIPIC-Large Detector

Monday 3 July 2017 16:32 (1 minute)

Presenter: GRYBOS, Pawel (AGH University of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 51

Type: **not specified**

Measurement of crosstalk in pixels for the Medipix 3

Monday 3 July 2017 16:33 (1 minute)

Presenter: THUNGSTROM, Goran (Mid Sweden University)

Session Classification: Poster Session I

Contribution ID: 52

Type: **not specified**

Digital hit allocation algorithm for charge sharing compensation in semiconductor pixel detectors

Monday 3 July 2017 16:34 (1 minute)

Presenter: OTFINOWSKI, Piotr (AGH University of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 53

Type: **not specified**

Analytical Expressions for Noise and Crosstalk Voltages of the High Energy Silicon Particle Detector

Monday 3 July 2017 16:35 (1 minute)

Presenter: YADAV, Indu (Indian Institute of Technology Mandi)

Session Classification: Poster Session I

Contribution ID: 54

Type: **not specified**

Design of a Charge Sensitive Amplifier for Silicon Particle Detection in BCD 180 nm Technology

Monday 3 July 2017 16:36 (1 minute)

Presenter: YADAV, Indu (Indian Institute of Technology Mandi)

Session Classification: Poster Session I

Contribution ID: 55

Type: **not specified**

High speed measurements system for time-resolved spectroscopy with synchrotron radiation

Monday 3 July 2017 16:25 (1 minute)

Presenter: KOZIOL, Anna (AGH University of Science and Technology)

Session Classification: Poster Session I

Contribution ID: 56

Type: **not specified**

2D GEM based imaging detector R&D from perspective of high intensity soft X-ray radiation

Wednesday 5 July 2017 14:06 (1 minute)

Presenter: CHERNYSHOVA, Maryna (Institute of Plasma Physics and Laser Microfusion)

Session Classification: Poster Session II

Contribution ID: 59

Type: **not specified**

A scintillator geometry suitable for very small PET geometries

Wednesday 5 July 2017 14:09 (1 minute)

Presenter: GONZALEZ, Antonio (Institute for Instrumentation in Molecular Imaging, i3M)

Session Classification: Poster Session II

Contribution ID: **60**

Type: **not specified**

Highly improved operation of BGO-PET blocks

Wednesday 5 July 2017 14:10 (1 minute)

Presenter: GONZALEZ-MONTORO, Andrea (Institute for Instrumentation in Molecular Imaging, i3M)

Session Classification: Poster Session II

Contribution ID: **61**

Type: **not specified**

Material Identification with Energy-resolved CT

Wednesday 5 July 2017 14:11 (1 minute)

Presenter: KANNO, Ikuo (Kyoto University)

Session Classification: Poster Session II

Contribution ID: 62

Type: **not specified**

Evaluation of a Compton Imager using 3D position-sensitive LYSO scintillator for the investigation of nuclear materials: A Monte Carlo simulation

Wednesday 5 July 2017 14:12 (1 minute)

Presenter: LEE, Taewoong (Health Science Research Center)

Session Classification: Poster Session II

Contribution ID: 64

Type: **not specified**

Application of Timepix3 Based CdTe Spectral Sensitive Photon Counting Detector for PET Imaging of Small Animals

Wednesday 5 July 2017 14:14 (1 minute)

Presenter: TURECEK, Daniel (Advacam s.r.o.)

Session Classification: Poster Session II

Contribution ID: 66

Type: **not specified**

A study of energy classification using different pixel filtration in CMOS image sensor

Wednesday 5 July 2017 14:16 (1 minute)

Presenter: KIM, Giyoon (KAIST)

Session Classification: Poster Session II

Contribution ID: 68

Type: **not specified**

Evaluation of Timepix3 based CdTe photon counting detector for fully spectroscopic small animal SPECT imaging

Wednesday 5 July 2017 14:18 (1 minute)

Presenter: TROJANOVA, Eliska (Advacam s.r.o.)

Session Classification: Poster Session II

Contribution ID: **69**

Type: **not specified**

First full dynamic range calibration of the JUNGFRAU photon detector

Wednesday 5 July 2017 14:19 (1 minute)

Presenter: REDFORD, Sophie (Paul Scherrer Institut)

Session Classification: Poster Session II

Contribution ID: 70

Type: **not specified**

Photodetection characterisation of SiPM technologies for their application in scintillator based neutron detectors

Wednesday 5 July 2017 14:20 (1 minute)

Presenter: KUMAR, Shashank (Forschungszentrum Juelich GmbH)

Session Classification: Poster Session II

Contribution ID: 71

Type: **not specified**

On the double peak structure of avalanche photodiode response to monoenergetic x-rays at different temperatures and operation biasing

Wednesday 5 July 2017 14:21 (1 minute)

Presenter: MONTEIRO, Cristina (University of Coimbra)

Session Classification: Poster Session II

Contribution ID: 72

Type: **not specified**

Design and Fabrication of CLYC-based Rotational Modulation Collimator (RMC) System for Gamma-Ray/Neutron Dual-Particle Imager

Wednesday 5 July 2017 14:22 (1 minute)

Presenter: KIM, Hyun Suk (Seoul National University)

Session Classification: Poster Session II

Contribution ID: 73

Type: **not specified**

Strip detector for the ATLAS detector upgrade for the High-Luminosity LHC

Wednesday 5 July 2017 14:23 (1 minute)

Presenter: VELOCE, Laurelle (University of Toronto)

Session Classification: Poster Session II

Contribution ID: 74

Type: **not specified**

Neutron Monitors of Various Geometrical Design for Detection of Nuclear Smuggling in Cargo Container

Wednesday 5 July 2017 14:24 (1 minute)

Presenter: LIM, Chang Hwy (Korea Research Institute of Ships and Ocean Engineering)

Session Classification: Poster Session II

Contribution ID: 77

Type: **not specified**

A study on the characteristics of indirect organic photodetector using p-type polycarbazole copolymer for X-ray Imaging

Wednesday 5 July 2017 14:28 (1 minute)

Presenter: KANG, Jungwon (Dankook University)

Session Classification: Poster Session II

Contribution ID: 78

Type: **not specified**

Performance improvement of a filter-type “transXend” energy-resolving X-ray detector from the viewpoint of noise immunity

Wednesday 5 July 2017 14:26 (1 minute)

Presenter: TSAI, Tien-Hsiu (Kyoto University)

Session Classification: Poster Session II

Contribution ID: 79

Type: **not specified**

The new Level-1 Topological Trigger for the ATLAS experiment at the Large Hadron Collider

Wednesday 5 July 2017 14:29 (1 minute)

Presenter: BAKKER, Pepijn (NIKHEF)

Session Classification: Poster Session II

Contribution ID: **80**

Type: **not specified**

A new unfolding method for energy-resolving transXend detector with K-edge filter

Wednesday 5 July 2017 14:30 (1 minute)

Presenter: HAMAGUCHI, Takumi (Kyoto University)

Session Classification: Poster Session II

Contribution ID: **81**

Type: **not specified**

Spatial energy-absorption distributions in a linear array of scintillators for megavoltage cargo-container inspection

Wednesday 5 July 2017 14:31 (1 minute)

Presenter: PARK, Jiwoong (Pusan National University)

Session Classification: Poster Session II

Contribution ID: 82

Type: **not specified**

Comparative study of analytical and iterative digital tomosynthesis reconstructions for thin slab objects

Wednesday 5 July 2017 14:32 (1 minute)

Presenter: YUN, Jonghee (Pusan National University)

Session Classification: Poster Session II

Contribution ID: 83

Type: **not specified**

Digital x-ray tomosynthesis with interpolated projection data for thin slab objects

Wednesday 5 July 2017 14:33 (1 minute)

Presenter: HA, Seungwoo (Pusan National University)

Session Classification: Poster Session II

Contribution ID: **84**

Type: **not specified**

Material identification CT using CdTe image sensor

Wednesday 5 July 2017 14:34 (1 minute)

Presenter: AOKI, Toru (Shizuoka University)

Session Classification: Poster Session II

Contribution ID: 85

Type: **not specified**

Proton Therapy treatment monitoring with on-line PET: positron emitters evaluation and comparison with Monte Carlo predictions

Wednesday 5 July 2017 14:35 (1 minute)

Presenter: MURARO, Silvia (INFN Pisa)

Session Classification: Poster Session II

Contribution ID: 86

Type: **not specified**

Optimization of Far-Field Pinhole Collimator for High-Resolution Gamma-Ray Imaging in the High-Energy Radiation Environments

Wednesday 5 July 2017 14:36 (1 minute)

Presenter: LEE, Minju (Korea Advanced Institute of Science and Technology)

Session Classification: Poster Session II

Contribution ID: 87

Type: **not specified**

Optimization of the equalization procedure for a single-photon counting CdTe detector used for CT

Wednesday 5 July 2017 14:37 (1 minute)

Presenter: DELOGU, Pasquale (Universita di Siena and INFN Pisa)

Session Classification: Poster Session II

Contribution ID: **88**

Type: **not specified**

Development of Fixed-type Cargo Inspection System for Three-dimensional Scanning

Wednesday 5 July 2017 14:38 (1 minute)

Presenter: LEE, Jeonghee (Korea Research Institute of Ships and Ocean Engineering)

Session Classification: Poster Session II

Contribution ID: 89

Type: **not specified**

X-ray micro-CT and neutron CT as complementary imaging tools for nondestructive 3D imaging of rare silicified fossil plants

Wednesday 5 July 2017 14:39 (1 minute)

Presenter: KARCH, Jakub (Institute of Experimental and Applied Physics CTU in Prague)

Session Classification: Poster Session II

Contribution ID: 90

Type: **not specified**

Pulse shape discrimination using EJ299-33 organic plastic scintillator for neutron dosimetry during proton beam therapy

Wednesday 5 July 2017 14:40 (1 minute)

Presenter: GUTIERREZ, Andrea (University College London)

Session Classification: Poster Session II

Contribution ID: 91

Type: **not specified**

X-ray imaging with sub-micron resolution using large area photon counting detectors Timepix

Wednesday 5 July 2017 14:41 (1 minute)

Presenter: DUDAK, Jan (Institute of Experimental and Applied Physics CTU in Prague)

Session Classification: Poster Session II

Contribution ID: 92

Type: **not specified**

Development of Photon-integrating based-on position sensitive sensor for identifying radioactive source of NDT apparatus in industrial fields

Wednesday 5 July 2017 14:42 (1 minute)

Presenter: KIM, Kyotae (Inje University)

Session Classification: Poster Session II

Contribution ID: 93

Type: **not specified**

Monte Carlo based efficiency calibration of portable Cube527 CdZnTe micro spectrometer for gamma spectrometry of radioactive waste material

Wednesday 5 July 2017 14:43 (1 minute)

Presenter: RADÓCZ, Gábor (Budapest University of Technology and Economics)

Session Classification: Poster Session II

Contribution ID: 95

Type: **not specified**

Radiation Imaging with a SOI-based Monolithic Pixel Chip

Wednesday 5 July 2017 14:45 (1 minute)

Presenter: KUKLOVA, Mahulena (Czech Technical University in Prague)

Session Classification: Poster Session II

Contribution ID: 98

Type: **not specified**

Using the Medipix3 detector for direct electron imaging in the range 60kV to 200kV in electron microscopy

Wednesday 5 July 2017 14:48 (1 minute)

Presenter: DOS SANTOS, Joaquim (University of Coimbra)

Session Classification: Poster Session II

Contribution ID: 99

Type: **not specified**

Development of a monolithic pixel detector with SOI technology for the ILC vertex detector

Monday 3 July 2017 09:00 (20 minutes)

Presenter: YAMADA, Miho (KEK)

Session Classification: Front-end and Readout

Contribution ID: **100**

Type: **not specified**

Development and Evaluation of an Event-driven SOI Pixel Detector for an X-ray Astronomy

Monday 3 July 2017 09:20 (20 minutes)

Presenter: TAKEDA, Ayaki (University of Miyazaki)

Session Classification: Front-end and Readout

Contribution ID: **101**

Type: **not specified**

MAPS sensor for radiation imaging designed in 180 nm SOI CMOS technology

Monday 3 July 2017 09:40 (20 minutes)

Presenter: HAVRANEK, Miroslav (Czech Technical University in Prague)

Session Classification: Front-end and Readout

Contribution ID: **102**

Type: **not specified**

3-D Integrated 2 cm × 2 cm, 65k Pixel X-ray Detection Module with Through-Silicon Vias

Tuesday 4 July 2017 09:00 (20 minutes)

Presenter: KASINSKI, Krzysztof (AGH University of Science and Technology)

Session Classification: Front-end and Readout

Contribution ID: 103

Type: **not specified**

WidePIX 3D: Very Compact Silicon Tracker with High Spatial Resolution and very Wide Field-of-view of 164°

Tuesday 4 July 2017 09:20 (20 minutes)

Presenter: JAKUBEK, Jan (Advacam s.r.o.)

Session Classification: Front-end and Readout

Contribution ID: **104**

Type: **not specified**

Particle Telescope with Timepix3 Pixel Detectors

Tuesday 4 July 2017 09:40 (20 minutes)

Presenter: BROULIM, Pavel (University of West Bohemia)

Session Classification: Front-end and Readout

Contribution ID: 105

Type: **not specified**

Test results of the STS/MUCH-XYTER2, a self-triggered time and amplitude digitizing chip for Silicon Tracking System at CBM experiment

Wednesday 5 July 2017 09:00 (20 minutes)

Presenter: KASINSKI, Krzysztof (AGH University of Science and Technology)

Session Classification: Front-end and Readout

Contribution ID: **106**

Type: **not specified**

ARTROC –a readout ASIC for GEM-based full-field XRF imaging system

Wednesday 5 July 2017 09:20 (20 minutes)

Presenter: FIUTOWSKI, Tomasz (AGH University of Science and Technology)

Session Classification: Front-end and Readout

Contribution ID: 107

Type: **not specified**

Development and Characterization of a 4x4 mm² Pixel Neutron Scintillation Detector using Digital SiPMs

Wednesday 5 July 2017 09:40 (20 minutes)

Presenter: HERZKAMP, Matthias (Forschungszentrum Juelich GmbH)

Session Classification: Front-end and Readout

Contribution ID: **108**

Type: **not specified**

Tests of UFXC32k chip with CdTe pixel detector

Thursday 6 July 2017 09:00 (20 minutes)

Presenter: GRYBOS, Pawel (AGH University of Science and Technology)

Session Classification: Front-end and Readout

Contribution ID: **109**

Type: **not specified**

Katherine: Ethernet Embedded Readout Interface for Timepix3

Thursday 6 July 2017 09:20 (20 minutes)

Presenter: BURIAN, Petr (University of West Bohemia)

Session Classification: Front-end and Readout

Contribution ID: 110

Type: **not specified**

Development of depleted monolithic CMOS sensors with fast readout architecture for the ATLAS Inner Tracker upgrade

Thursday 6 July 2017 09:40 (20 minutes)

Presenter: WANG, Tianyang (University of Bonn)

Session Classification: Front-end and Readout

Contribution ID: **111**

Type: **not specified**

Thin n-in-p planar pixel developments for the ATLAS ITK

Thursday 6 July 2017 11:00 (20 minutes)

Presenter: SAVIC, Natascha (Max-Planck-Institute for Physics)

Session Classification: Sensors

Contribution ID: 112

Type: **not specified**

CMOS pixel development for the ATLAS experiment at the HL-LHC

Thursday 6 July 2017 11:20 (20 minutes)

Presenter: GAUDIELLO, Andrea (INFN Genova)

Session Classification: Sensors

Contribution ID: 113

Type: **not specified**

Performance study of double SOI image sensors

Thursday 6 July 2017 11:40 (20 minutes)

Presenter: MIYOSHI, Toshinobu (KEK)

Session Classification: Sensors

Contribution ID: 114

Type: **not specified**

The test beam results of SOI pixel detector

Thursday 6 July 2017 12:00 (20 minutes)

Presenter: IDZIK, Marek (AGH University of Science and Technology)

Session Classification: Sensors

Contribution ID: 115

Type: **not specified**

The Tynode: a new vacuum electron multiplier for ultra fast pixelised particle detectors

Thursday 6 July 2017 12:20 (20 minutes)

Presenter: DUARTE PINTO, Serge (Photonis)

Session Classification: Sensors

Contribution ID: 116

Type: **not specified**

Efficient, fast 511-keV γ detection through Cherenkov radiation and ionization: the CaLIPSO detector for PET Imaging

Tuesday 4 July 2017 11:00 (20 minutes)

Presenter: YVON, Dominique (CEA Saclay)

Session Classification: Sensors

Contribution ID: 117

Type: **not specified**

Development of the Fast and Efficient Gamma Detector Using Cherenkov Light for TOF-PET

Tuesday 4 July 2017 11:20 (20 minutes)

Presenter: CANOT, Clotilde (CEA Saclay)

Session Classification: Sensors

Contribution ID: **118**

Type: **not specified**

GaAs sensors with microstrip and pixelated detectors

Tuesday 4 July 2017 11:40 (20 minutes)

Presenter: RUAT, Marie (Paul Scherrer Institut)

Session Classification: Sensors

Contribution ID: **119**

Type: **not specified**

Characterisation of GaAs:Cr pixel sensors coupled to TIMEPIX chips in view of synchrotron applications

Tuesday 4 July 2017 12:00 (20 minutes)

Presenter: PONCHUT , Cyril (ESRF - The European Synchrotron)

Session Classification: Sensors

Contribution ID: 120

Type: **not specified**

Spectral performance, characterisation and simulation of 5 mm thick CZT detectors hybridised to a Timepix ASIC

Tuesday 4 July 2017 12:20 (20 minutes)

Presenter: CHERLIN, Alexander (Kromek Group Plc)

Session Classification: Sensors

Contribution ID: 121

Type: **not specified**

Nanoparticle aerosol as radiation detection medium in gaseous proportional counters: an alternative solution for neutron detection

Wednesday 5 July 2017 11:00 (20 minutes)

Presenter: DOS SANTOS, Joaquim (University of Coimbra)

Session Classification: Sensors

Contribution ID: 122

Type: **not specified**

Characterisation of a neutron diffraction detector prototype based on the Trench-MWPC technology

Wednesday 5 July 2017 11:20 (20 minutes)

Presenter: MARCHAL, Julien (Institut Laue Langevin)

Session Classification: Sensors

Contribution ID: 123

Type: **not specified**

Electrical characterization of FBK small-pitch 3D sensors after γ -ray, neutron and proton irradiations

Wednesday 5 July 2017 11:40 (20 minutes)

Presenter: DALLA BETTA, Gian-Franco (TIFPA INFN)

Session Classification: Sensors

Contribution ID: 124

Type: **not specified**

Comparison of Experimental Results of a Quad-CZT Array Detector and NaI(Tl), LaBr₃(Ce), HM-5, HPGe for Nuclear Safeguards Applications

Wednesday 5 July 2017 12:00 (20 minutes)

Presenter: KWAK, Sung-Woo (Korea Institute of Nuclear Non-proliferation and Control)

Session Classification: Sensors

Contribution ID: 125

Type: **not specified**

Silicon Pixel Sensor Processing on 8" High Resistivity Wafers

Wednesday 5 July 2017 12:20 (20 minutes)

Presenter: KALLIOPUSKA, Juha (Advacam Oy)

Session Classification: Sensors

Contribution ID: 126

Type: **not specified**

Development of a compact Compton camera for 3D image reconstruction of radioactive contaminations

Tuesday 4 July 2017 16:10 (20 minutes)

Presenter: SATO, Yuki (Japan Atomic Energy Agency)

Session Classification: Applications

Contribution ID: 127

Type: **not specified**

Neutron imaging and tomography with MCPs

Tuesday 4 July 2017 17:30 (20 minutes)

Presenter: DUARTE PINTO, Serge (Photonis)

Session Classification: Applications

Contribution ID: 128

Type: **not specified**

A Compton Camera for prompt gamma imaging during proton beam therapy for range and dose verification

Tuesday 4 July 2017 16:30 (20 minutes)

Presenter: GUTIERREZ, Andrea (University College London)

Session Classification: Applications

Contribution ID: 129

Type: **not specified**

Characterization of a tracker for secondary fast and ultrafast neutrons: MONDO experiment

Tuesday 4 July 2017 16:50 (20 minutes)

Presenter: TRAINI, Giacomo (Universita degli studi di Roma La Sapienza)

Session Classification: Applications

Contribution ID: 130

Type: **not specified**

The 3D CdZnTe drift strip detector developed at DTU Space

Tuesday 4 July 2017 17:10 (20 minutes)

Presenter: KUVVETLI, Irfan (DTU Space, Technical University of Denmark)

Session Classification: Applications

Contribution ID: 131

Type: **not specified**

Design of the new ATLAS Inner Tracker for the High Luminosity LHC era

Monday 3 July 2017 14:00 (20 minutes)

Presenter: VICKEY, Trevor (Sheffield University)

Session Classification: Applications

Contribution ID: 132

Type: **not specified**

Module and electronics developments for the ATLAS ITK pixel system

Monday 3 July 2017 14:20 (20 minutes)

Presenter: MUNOZ SANCHEZ, Francisca (University of Manchester)

Session Classification: Applications

Contribution ID: 133

Type: **not specified**

Performance of the modules for the CMS phase I pixel detector upgrade

Monday 3 July 2017 14:40 (20 minutes)

Presenter: MEINHARD, Maren Tabea (Eidgenoessische Technische Hochschule Zuerich)

Session Classification: Applications

Contribution ID: 134

Type: **not specified**

Performance of the UFXC32k photon counting detector for synchrotron radiation applications

Tuesday 4 July 2017 14:00 (20 minutes)

Presenter: KOZIOL, Anna (AGH University of Science and Technology)

Session Classification: Applications

Contribution ID: 135

Type: **not specified**

Directional and position sensitive detection of energetic electrons with high-angular resolution and wide field-of-view WidePIX 3D Timepix telescope

Tuesday 4 July 2017 14:20 (20 minutes)

Presenter: GRANJA, Carlos (Nuclear Physics Institute, Czech Academy of Science)

Session Classification: Applications

Contribution ID: 137

Type: **not specified**

DSSC for the European XFEL: first results on the 128 x 512 prototype system and roadmap to the megapixel camera

Tuesday 4 July 2017 14:40 (20 minutes)

Presenter: PORRO, Matteo (European X-ray Free-Electron Laser Facility GmbH)

Session Classification: Applications

Contribution ID: 138

Type: **not specified**

Status and outlook of the AGIPD detectors at the Eu- XFEL

Tuesday 4 July 2017 15:00 (20 minutes)

Presenter: ALLAHGHOLI, Aschkan (DESY)

Session Classification: Applications

Contribution ID: 139

Type: **not specified**

Sealed MPGDs for X-ray Imaging Applications

Monday 3 July 2017 11:00 (20 minutes)

Presenter: CARRAMATE, Lara (University of Aveiro)

Session Classification: Applications

Contribution ID: 140

Type: **not specified**

Energy dispersive imaging with MÖNCH

Monday 3 July 2017 11:20 (20 minutes)

Presenter: RAMILLI, Marco (Paul Scherrer Institut)

Session Classification: Applications

Contribution ID: 141

Type: **not specified**

Precision Scan-Imaging for Paperboard Quality Inspection utilizing X-ray Fluorescence

Monday 3 July 2017 11:40 (20 minutes)

Presenter: NORLIN, Börje (Mid Sweden University)

Session Classification: Applications

Contribution ID: 142

Type: **not specified**

Pushing the Limits of Position Resolution with pnCCDs

Monday 3 July 2017 12:00 (20 minutes)

Presenter: HOLL, Peter (PNSensor GmbH)

Session Classification: Applications

Contribution ID: 143

Type: **not specified**

Applications of a pnCCD Detector Coupled to Columnar Structure CsI(Tl) Scintillator System in Ultra High Energy X-ray Laue Diffraction

Tuesday 4 July 2017 17:50 (20 minutes)

Presenter: SHOKR, Mohammad (University of Siegen)

Session Classification: Applications

Contribution ID: 144

Type: **not specified**

Detector requirements for single mask edge illumination X-ray phase contrast imaging applications

Monday 3 July 2017 15:00 (20 minutes)

Presenter: KALLON, Gibril (University College London)

Session Classification: Imaging Theory

Contribution ID: 145

Type: **not specified**

The LHCb Vertex Locator Upgrade

Tuesday 4 July 2017 15:20 (20 minutes)

Presenter: SZUMLAK, Tomasz (AGH University of Science and Technology)

Session Classification: Applications

Contribution ID: 146

Type: **not specified**

The JUNGFRÄU detector and its first applications at FELs and synchrotron light sources

Wednesday 5 July 2017 10:00 (30 minutes)

Presenter: MOZZANICA, Aldo (Paul Scherrer Institut)

Session Classification: Invited

Contribution ID: 147

Type: **not specified**

Fabrication and testing of large area 3D diamond detectors

Thursday 6 July 2017 10:00 (30 minutes)

Presenter: HAUGHTON, Iain (University of Manchester)

Session Classification: Invited

Contribution ID: 148

Type: **not specified**

Challenges and solutions in X-ray detector design for laboratory based instrumentation

Monday 3 July 2017 10:00 (30 minutes)

Presenter: GERNDT, Ekkehard (Bruker AXS GmbH)

Session Classification: Invited

Contribution ID: 149

Type: **not specified**

Workshop summary and closing

Thursday 6 July 2017 12:40 (20 minutes)

Presenter: FRÖJDH, Christer (Mid Sweden University)

Session Classification: Summary