

20th International Workshop on Radiation Imaging Detectors

Monday, 25 June 2018

Poster session: part 1 - Quality Hotel, Folkets Hus (16:00 - 17:00)

-Conveners: Val O'Shea

[id] title	presenter	board
[15] Investigation of Low Temperature Bonding Process using Indium Bumps	FRITZSCH, Thomas	
[14] The Adaptive Gain Integrating Pixel Detector for fast experiments at the European XFEL	KLYUEV, Alexander	
[18] Absorbed dose distributions in intensity-modulated dental computed tomography	KIM, Jinwoo	
[17] Improvement of the sensitivity of organic polymer-based photodetector fabricated with p-type conjugated polymers for indirect X-ray detection	Mr BAN, Daehee	
[25] The influence of contact material and its fabrication on X-ray GaAs:Cr sensor noise characteristics	Mr CHSHERBAKOV, Ivan	
[54] Development and Evaluation of Parylene C-type Additive detector for High Resolution in High Energy X-ray CT	Mr SHIN, YOCHAN Prof. PARK, SUNGKWANG Mr HAN, MOOJAE	
[53] PVT based Neutron Monitor for Monitoring of Nuclear Smuggling in Cargo Container	Mr IK-HYUN, Kim	
[5] EVALUATIONS OF COMMON SOLID-STATE DETECTORS WITH MULTI-CRITERIA DECISION-MAKING THEORY FUZZY PROMETHEE	Dr OZSAHIN, Ilker	
[39] Comparison between bulk semi-insulating GaAs-based and Si-based sensor for Timepix hybrid pixel radiation detector	Mr KUBANDA, Dávid	
[51] Virtual monochromatic computed tomography based on compressed-sensing theory for improving image characteristics	Ms PARK, Jeongeun	
[42] Double-side pixelated X-ray detector based on metamorphic InGaAs/InAlAs quantum well	GANBOLD, Tamiraa	
[45] Energy dependence of two-dimensional Al ₂ O ₃ thermoluminescence dosimeter in robotic radiosurgery	YANAGISAWA, Shin	
[40] Dose distribution visualization by multi-pixel photon detectors containing lead(II) iodide for the development of radiation safety management system of radioactive source	Mr SHIN, YO HAN	
[44] Simulation of Particle Tracks in a Timepix Detector	Dr GEORGE, Stuart	
[38] Development of a dual-sided readout DOI-PET detector using 500- μ m-pitch 64ch SiPMs	Ms ZHENG, Laiwen	
[34] Feasibility Study on Current-mode SPECT for B-10 Concentration Estimation in Boron Neutron Capture Therapy	Prof. KANNO, Ikuo	
[33] Noise spectral density calculation of different CdTe Metal-semiconductor-metal contacts	Prof. J, Franc	
[36] Numerical simulations of CMOS sensors for high-precision silicon trackers	Dr LIU, Jian	
[32] Study on photon counting detector using CZT and CdTe	Prof. CHO, Gyuseong	
[24] Response function of GaAs:Cr X-ray sensors	Ms LOZINSKAYA, Anastasia	

[26] Linear approximation of single-shot dual-energy computed tomography with a multilayer detector	Prof. KIM, Ho Kyung	
[27] Noise-reduction approach to single-shot dual-energy imaging with a multilayer detector	Mr KIM, Dong Woon	
[23] Temperature Sensor based on PEDOT:PSS Ink-Jet printed on Paper Substrate	Mr JAN, Mašík	
[13] Characteristics of a Flexible Radiation Detector Fabricated with Non-Fullerene Acceptor for Indirect-type X-ray Imaging	JUNGWON, Kang	
[10] Development of prompt-gamma and positron emission tomography (PG-PET) system for in vivo dose verification in proton therapy: a Monte Carlo study	Mr CHOI, HyunJoon	
[3] Sparse Compton X-ray imaging using MAPS technology	Dr WANG, Zhehui	
[20] Development of a large-area multilayer detector for single-shot dual-energy imaging	Mr KIM, Ho Kyung	

Tuesday, 26 June 2018

Poster session: part 2 - Quality Hotel, Folkets Hus (16:00 - 17:00)

-Conveners: Thilo Michel

[id] title	presenter	board
[55] Feasibility Evaluation of Mercury() Iodide based Curved Dosimeter for measurement of Entrance Surface Dose in Radiotherapy	Mr HAN, MOOJAE Mr SHIN, YOCHAN Prof. PARK, SUNGKWANG	
[65] In-beam PET treatment monitoring including short and intermediate lifetime isotopes	KRAAN, Aafke Prof. ROSSO, Valeria	
[61] A system modification to a single-grid phase-contrast x-ray imaging (PCXI) system for improving image quality	Prof. CHO, H. S.	
[84] DAQ software for GEM-based imaging system	Dr MINDUR, Bartosz	
[73] Characterization of CdTe Diode Detector with Depletion Layer Modulation	Mr TERA0, Tsuyoshi	
[74] Sensor and module developments for the ATLAS ITK pixel system	MACCHIOLO, Anna	
[80] Dual asymmetric and high resolution detection heads of a novel compact Molecular Breast Imaging system for small breast cancer diagnosis	POMA, Gaetano Elio	
[90] Compact four-layered Timepix-based particle tracker WidePIX 3D: The first applications in X-ray CT imaging	Dr ŽEMLIČKA, Jan	
[93] K-edge sensitive X-Ray Radiography for Small Animal using fully spectral Timepix3 detector	Mrs TROJANOVA, Eliska	
[91] Absorption grating based X-ray phase contrast CT using Timepix detector	Dr ŽEMLIČKA, Jan	
[97] Stack of Timepix-based detectors with Si, GaAs:Cr and CdTe sensors with optimized thickness for spectral micro-CT	Mr KOZHEVNIKOV, Danila	
[102] Transient phenomena in Schottky Au / CdZnTe interface	Dr ELHADIDY, Hassan	
[88] High resolution X-ray micro-CT imaging of fibrin scaffold using large area photon counting detector	KOUDELKA, Petr	
[79] A USB 3.0 readout system for Timepix3 detectors with on-board processing capabilities	Mr DREIER, Till	
[89] Investigation of radiation hardness in lateral position sensitive detector irradiated with 13.5 nm EUV	Dr THUNGSTRÖM, Göran	
[78] Compressed-sensing based digital tomosynthesis (DTS) using a moving multi-slit collimator for low-dose x-ray imaging	PARK, Soyoung	
[83] Pattern Recognition Algorithm for Charge Sharing Compensation in Single Photon Counting Pixel Detectors	Dr OTFINOWSKI, Piotr	
[77] Spectral analysis of 3D and planar sensors with Timepix3	GAO, Tianqi	
[67] Material Discrimination Using Dual Energy X-ray Beam for Cargo Inspection system	Mr LEE, JeongHee	
[60] Comparative analysis of the readout front-end electronics implemented in deep submicron technologies.	KMON, Piotr	
[64] Design of high resolution gamma camera for radioactive waste monitor	Ms LEE, Minju	
[58] Characterization of LVDS drivers for MAPS detector designed in 180 nm SOI CMOS technology	Mr BENKA, Tomas	

[50] Evaluating the effectiveness of a mixed lead() iodide and oxide semiconductor-based sensor for the development of a position sensitive detector for tracking a radioactive source	Mr HAN, MOO JAE	
[96] Deformation Analysis of the Spongious Sample in Simulated Physiological Conditions Based on In-situ Compression, 4D Computed Tomography and Photon-Counting Detector	FILA, Tomas	
[100] XRF Methods for Online Measurement of Chromium, Molybdenum and Cadmium Contents in Fly Ash from Municipal Solid Waste Incineration	Dr REZA, Salim	
[95] Time of flight measurement by the PH32 chip	JANOSKA, Zdenko	
[99] Radiation damage effects caused by soft X-rays in silicon pad detectors	Mr WIACEK, Piotr	
[128] Geant4 Simulations of a Scintillator and SiPM System for Medical Applications	Prof. CONKA, Tuba	

Wednesday, 27 June 2018

Poster session: part 3 - Quality Hotel, Folkets Hus (16:00 - 17:00)

-Conveners: David Krapohl

[id] title	presenter	board
[118] Calibrating MARS Cameras using X-ray Fluorescence	Ms VANDEN BROEKE, Lieza	
[121] Rospix: modular software tool for automated data acquisitions of Timepix detectors on Robot Operating System	BACA, Tomas	
[116] Design and Characterization of a Preamplifier for Photodiodes With Separate Gain Channels for High-Frequency and DC Signal Components	CAPRA, Stefano	
[101] Gas gain and secondary processes in Ne – N ₂ mixtures – concentration and pressure scaling.	Dr KOWALSKI, Tadeusz	
[113] Implementation of large area CdTe Hybrid Pixel detector for purpose of X-ray spectroscopic imaging.	Mr HASN, Salman	
[111] A Comparative Study of the TID and SEE Radiation Effects on ASICs Manufactured in 180 nm Commercial Technologies	MARCISOVSKA, Maria	
[106] Characterization of silicon sensors for the soft X-ray energy range	CHIRIOTTI ALVAREZ, Sabina	
[126] Characterization of noise and quantum efficiency of the Pixirad-1/Pixie-III CdTe X-ray imaging detector	DI TRAPANI, Vittorio	
[124] Study of power consumption of Timepix3 detector	BROULIM, Pavel	
[112] Addressing of imperfection of hybrid pixel sensors for X-ray detection through corrections of gains and DC offsets mismatch in a circuit for charge sharing cancellation.	Mrs KRZYŻANOWSKA, Aleksandra	
[130] Simulation of New Scintillation Crystals for Brain PET	Mr MUSA, Musa Sani	
[135] TOF studies for dedicated PET with open geometries	Dr MOLINER, Laura	
[137] Photodetector of multilayer exfoliated MoS ₂ deposited on polyimide films	FORSBERG, Viviane	
[139] Study of low power front-ends for hybrid pixel detectors	LLOPART CUDIE, Xavi	
[141] X-ray Transmission Imaging Performance with a Sealed MPGD	DAS NEVES DIAS CARRAMATE, Lara Filipa DOS SANTOS, Joaquim Marques Ferreira	
[138] Absolute measurement of Kr Electroluminescence Yield	FERNANDES, L.M.P.	
[140] The SpacePix-D Radiation Monitor Technology demonstrator	VRBA, V.	
[143] Prototype of detector of reactor antineutrinos for reactor monitoring	SAVOROVA, Maria	
[104] Study of electromigration phenomena in Au/P-type CdTe of two Schottky contacts	Dr ELHADIDY, Hassan	
[114] A synchronization and data acquisition system for silicon detectors	AHMADOV, Gadir HOLIK, Michael	
[108] Using Timepix pixel detectors in educational physics experiments about natural radioactivity and cosmic rays	KELLER, Oliver	
[155] Gain and Noise in GaAs/AlGaAs Avalanche Photodiodes with Thin Multiplication Regions	MENK, Ralf Hendrik	
[35] Multilayer Compton Camera based on Timepix3 Technology	Mr TURECEK, Daniel	