

Workshop on CMOS Active Pixel Sensors for Particle Tracking (CPIX14)

Report of Contributions

Contribution ID: 0

Type: **not specified**

Challenges of Future High Energy Particle Detection

Monday, 15 September 2014 09:05 (25 minutes)

Presenter: HEMPEREK, Tomasz (Universitaet Bonn (DE))

Session Classification: Technology and design I

Contribution ID: 2

Type: **not specified**

Development of DMAPS Sensors in ESPROS Technology

Monday, 15 September 2014 12:00 (30 minutes)

Presenter: HAVRANEK, Miroslav (Acad. of Sciences of the Czech Rep. (CZ))

Session Classification: Technology and design II

Contribution ID: 3

Type: **not specified**

DMAPS Design in XFAB Technology

Monday, 15 September 2014 11:30 (30 minutes)

Presenter: KISHISHITA, Tetsuichi (University of Bonn)

Session Classification: Technology and design II

Contribution ID: 4

Type: **not specified**

Design and process development of CMOS image sensors with TowerJazz

Monday, 15 September 2014 09:30 (30 minutes)

Presenter: TURCHETTA, Renato (STFC - Rutherford Appleton Lab. (GB))

Session Classification: Technology and design I

Contribution ID: 5

Type: **not specified**

APSEL Deep n-well and Deep p-well CMOS Sensors with ST and TowerJazz Technologies

Monday, 15 September 2014 10:00 (30 minutes)

Presenter: Dr TRAVERSI, Gianluca (University of Bergamo)

Session Classification: Technology and design I

Contribution ID: 6

Type: **not specified**

CCPD Design: from AMS to GF technology

Tuesday, 16 September 2014 10:00 (30 minutes)

Presenter: PANGAUD, Patrick (Centre National de la Recherche Scientifique (FR))

Session Classification: Technology and design III

Contribution ID: 7

Type: **not specified**

AMS Designs: CLICPix/CCPD/Mu3e

Tuesday, 16 September 2014 09:30 (30 minutes)

Presenter: PERIC, Ivan (Ruprecht-Karls-Universitaet Heidelberg (DE))

Session Classification: Technology and design III

Contribution ID: 8

Type: **not specified**

Deep n-well CMOS Sensors with 3D Integration of Global Foundries Wafers

Monday, 15 September 2014 11:00 (30 minutes)

Presenter: RE, Valerio (INFN)

Session Classification: Technology and design II

Contribution ID: 9

Type: **not specified**

Alice Designs: Mistral, Astral, Alpide

Tuesday, 16 September 2014 12:00 (30 minutes)

Presenter: WINTER, Marc (Institut Pluridisciplinaire Hubert Curien (FR))

Session Classification: Technology and design IV

Contribution ID: **10**

Type: **not specified**

Design of CMOS Pixels Sensor for the STAR Experiment

Tuesday, 16 September 2014 11:00 (30 minutes)

Presenter: Dr HU, Christine (IPHC/IN2P3)

Session Classification: Technology and design IV

Contribution ID: 11

Type: **not specified**

STAR MAPS Developments and Experiences

Tuesday, 16 September 2014 11:30 (30 minutes)

Presenter: GREINER, Leo (LBNL)

Session Classification: Technology and design IV

Contribution ID: 12

Type: **not specified**

Lapis SOI Technology and Designs

Wednesday, 17 September 2014 12:00 (30 minutes)

Presenter: ARAI, Yasuo (High Energy Accelerator Research Organization (JP))

Session Classification: Technology and design VI

Contribution ID: 13

Type: **not specified**

PERCIVAL: CMOS Image Sensors for Low Energy X-Ray Detection

Tuesday, 16 September 2014 09:00 (30 minutes)

Presenter: SEDGWICK, Iain (STFC)

Session Classification: Technology and design III

Contribution ID: 14

Type: **not specified**

SLAC Developments in CMOS Sensors

Wednesday, 17 September 2014 10:00 (30 minutes)

Presenter: SEGAL, Julie (SLAC)

Session Classification: Technology and design V

Contribution ID: 15

Type: **not specified**

Radiation Hardness of the Tower/Jazz 0.18 μm Imaging CMOS Process

Wednesday, 17 September 2014 15:00 (30 minutes)

Presenter: DEVEAUX, Michael (Johann-Wolfgang-Goethe Univ. (DE))

Session Classification: Detector characterization and performance I

Contribution ID: 16

Type: **not specified**

CMOS MAPS in Planar and 3D Technologies: TID Effects and Bulk Damage Study

Wednesday, 17 September 2014 14:30 (30 minutes)

Presenter: RATTI, Lodovico (University of Pavia)

Session Classification: Detector characterization and performance I

Contribution ID: 17

Type: **not specified**

ESPROS DMAPS: Sensor characterization

Wednesday, 17 September 2014 16:30 (30 minutes)

Presenter: OBERMANN, Theresa (Universitaet Bonn (DE))

Session Classification: Detector characterization and performance II

Contribution ID: 19

Type: **not specified**

Experience with commercial 130 nm Process for Active CMOS Pixels

Wednesday, 17 September 2014 09:00 (30 minutes)

Presenter: GNANI, Dario (LBNL)

Session Classification: Technology and design V

Contribution ID: 20

Type: **not specified**

Characterization of CCPDV3 HV-CMOS sensors capacitively coupled to CLICpix 65 nm CMOS readout ASICs

Wednesday, 17 September 2014 14:00 (30 minutes)

Presenter: BENOIT, Mathieu (CERN LCD)

Session Classification: Detector characterization and performance I

Contribution ID: 22

Type: **not specified**

LFoundry Technology

Monday, 15 September 2014 14:30 (30 minutes)

Presenter: SPITZELSPERGER, Gerhard (LFoundry)

Session Classification: Industrial technology offerings

Contribution ID: 23

Type: **not specified**

TowerJazz Technology

Monday, 15 September 2014 15:00 (30 minutes)

Presenter: STRUM, Avi (TowerJazz)

Session Classification: Industrial technology offerings

Contribution ID: 24

Type: **not specified**

MAPS are for amateurs, professionals do 3D

Tuesday, 16 September 2014 16:45 (30 minutes)

Presenter: Dr DEPTUCH, Grzegorz (Fermi National Accelerator Lab. (US))

Session Classification: 3D integration and interconnection technologies

Contribution ID: 25

Type: **not specified**

ESPROS technology

Monday, 15 September 2014 14:00 (30 minutes)

Presenter: POPP, Martin (Espros Photonics)

Session Classification: Industrial technology offerings

Contribution ID: 26

Type: **not specified**

Rad-hard design in CMOS [image] sensors

Tuesday, 16 September 2014 14:00 (45 minutes)

Presenter: DIERICKX, Bart (Caeleste)

Session Classification: CMOS sensors: industry developments

Contribution ID: 27

Type: **not specified**

Advances in Bonding technologies (chip to wafer and wafer to wafer)

Tuesday, 16 September 2014 17:15 (30 minutes)

Presenter: Mr YAREMA, Ray (FNAL)

Session Classification: 3D integration and interconnection technologies

Contribution ID: 28

Type: **not specified**

CMOS pixels for electron microscopy: requirements and R&D results at TEAM

Monday, 15 September 2014 17:00 (30 minutes)

Presenter: BATTAGLIA, Marco (University of California,Santa Cruz (US))

Session Classification: Electron microscopy

Contribution ID: 29

Type: **not specified**

Discussion

Monday, 15 September 2014 17:30 (30 minutes)

Session Classification: Electron microscopy

Contribution ID: **30**

Type: **not specified**

Fully depleted MAPS: Pegasus and Mimosa 33

Wednesday, 17 September 2014 09:30 (30 minutes)

Presenter: KACHEL, Maciej (IPHC)

Session Classification: Technology and design V

Contribution ID: 31

Type: **not specified**

Design detail and performance of Fully Depleted Backside Illuminated CMOS Sensors

Tuesday, 16 September 2014 14:45 (30 minutes)

Presenter: LAUXTERMANN, Stefan (Sensor Creations)

Session Classification: CMOS sensors: industry developments

Contribution ID: 32

Type: **not specified**

Design and Characterization of a High-Speed Multi-frame Hybrid CMOS Sensor

Wednesday, 17 September 2014 16:00 (30 minutes)

Presenter: PORTER, John (Sandia National Laboratories)

Session Classification: Detector characterization and performance II

Contribution ID: 33

Type: **not specified**

X-ray image sensors for SACLA and future Ultimate Storage Ring Light Sources

Wednesday, 17 September 2014 11:00 (1 hour)

Presenter: TERANISHI, Nobukazu (University of Hyogo)

Session Classification: Technology and design VI

Contribution ID: **34**

Type: **not specified**

CMOS APS for TEM

Monday, 15 September 2014 16:30 (30 minutes)

Presenter: GUERRINI, Nicola Carlo (STFC - RAL)

Session Classification: Electron microscopy

Contribution ID: 36

Type: **not specified**

AMS High Performance CIS Modules

Tuesday, 16 September 2014 15:15 (30 minutes)

Presenter: JONAK-AUER, Ingrid (AMS)

Session Classification: CMOS sensors: industry developments

Contribution ID: 37

Type: **not specified**

Image Sensor Design and Technology Development at Fraunhofer IMS

Tuesday, 16 September 2014 15:45 (30 minutes)

Presenter: WEYERS, Sasha (Fraunhofer IMS)

Session Classification: CMOS sensors: industry developments

Contribution ID: 38

Type: **not specified**

GLOBALFOUNDRIES process technology offering to address active pixel detector applications

Monday, 15 September 2014 15:30 (30 minutes)

Presenter: VERWAGNER, Michael (GLOBAL FOUNDRIES Europe Ltd.)

Session Classification: Industrial technology offerings

Contribution ID: 39

Type: **not specified**

Welcome and introduction

Monday, 15 September 2014 09:00 (5 minutes)

Presenter: WERMES, Norbert (Universitaet Bonn (DE))

Session Classification: Technology and design I