

# **10th International Meeting on Front-End Electronics (FEE 2016)**

## **Report of Contributions**

Contribution ID: 5

Type: **not specified**

## Fast timing techniques

*Friday 3 June 2016 09:00 (25 minutes)*

**Presenter:** RIVETTI, Angelo (Universita e INFN Torino (IT))

**Session Classification:** Timing

Contribution ID: 6

Type: **not specified**

## **100ps time resolution for silicon pixel detectors**

*Friday 3 June 2016 09:25 (25 minutes)*

**Presenter:** PAOLOZZI, Lorenzo (Universite de Geneve (CH))

**Session Classification:** Timing

Contribution ID: 7

Type: **not specified**

## **ROC chips for SiPM and fast timing**

*Friday 3 June 2016 09:50 (25 minutes)*

**Presenter:** DE LA TAILLE, Christophe (OMEGA (FR))

**Session Classification:** Timing

Contribution ID: **8**

Type: **not specified**

## **CMS HGCAL**

*Friday 3 June 2016 11:15 (25 minutes)*

**Presenter:** THIENPONT, Damien (IN2P3/OMEGA)

**Session Classification:** FE for Calorimeters

Contribution ID: 9

Type: **not specified**

## **Low temperature CMOS electronics for LAr, LXe and Ge detectors and its role in future experiments**

*Friday 3 June 2016 11:40 (25 minutes)*

**Presenter:** LI, Shaorui

**Session Classification:** FE for Calorimeters

Contribution ID: **10**

Type: **not specified**

## **New developments for the liquid argon calorimeter**

*Tuesday 31 May 2016 16:35 (25 minutes)*

**Presenter:** NEWCOMER, Mitchell Franck (University of Pennsylvania (US))

**Session Classification:** Miscellaneous

Contribution ID: 11

Type: **not specified**

## **FLAME, an ASIC for luminometer at a future linear collider**

*Friday 3 June 2016 12:05 (25 minutes)*

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

**Session Classification:** FE for Calorimeters



Contribution ID: 12

Type: **not specified**

## **Monolithic CMOS sensors**

*Tuesday 31 May 2016 09:30 (25 minutes)*

**Presenter:** KRUEGER, Hans (University of Bonn)

**Session Classification:** CMOS MAPS

Contribution ID: 13

Type: **not specified**

## **Chess2 front end readout of the multi-segmented HV CMOS sensors**

*Tuesday 31 May 2016 09:55 (25 minutes)*

**Presenter:** GRABAS, Herve Marie Xavier (University of California, Santa Cruz (US))

**Session Classification:** CMOS MAPS

Contribution ID: 14

Type: **not specified**

## **Development of SOI monolithic pixel sensors**

*Tuesday 31 May 2016 10:50 (25 minutes)*

**Presenter:** MIYOSHI, Toshinobu (KEK)

**Session Classification:** Advanced pixels

Contribution ID: 15

Type: **not specified**

## Single photon imagers

*Tuesday 31 May 2016 11:15 (25 minutes)*

**Presenter:** CHARBON, Edoardo (TU Delft)

**Session Classification:** Advanced pixels

Contribution ID: 16

Type: **not specified**

# **Readout Channel with Dynamic Range Compression for Signal Processing in Applications at Future X-ray FEL**

*Tuesday 31 May 2016 11:40 (25 minutes)*

**Presenter:** MANGHISONI, Massimo (Università di Bergamo - Italy)

**Session Classification:** Advanced pixels

Contribution ID: 17

Type: **not specified**

## High dynamic range pixel readout in a Si-Ge process

*Tuesday 31 May 2016 12:05 (25 minutes)*

**Presenter:** ZIMMERMAN, Thomas (Fermi National Accelerator Lab. (US))

**Session Classification:** Advanced pixels

Contribution ID: **18**

Type: **not specified**

## **Front end electronics for silicon strip detectors in submicron technologies**

*Tuesday 31 May 2016 14:00 (25 minutes)*

**Presenter:** KAPLON, Jan (CERN)

**Session Classification:** Deep submicron

Contribution ID: 19

Type: **not specified**

## **FE65\_P2: Prototype Pixel Readout Chip in 65nm for HL-LHC Upgrades**

*Tuesday 31 May 2016 14:25 (25 minutes)*

**Presenter:** HEMPEREK, Tomasz

**Session Classification:** Deep submicron



Contribution ID: 20

Type: **not specified**

## **Noise measurements on 65 nm CMOS transistors at very high total doses**

*Tuesday 31 May 2016 14:50 (25 minutes)*

**Presenter:** RE, Valerio

**Session Classification:** Deep submicron

Contribution ID: 21

Type: **not specified**

## SiPM readout

*Tuesday 31 May 2016 15:45 (25 minutes)*

**Presenter:** ROLO, Manuel

**Session Classification:** Miscellaneous

Contribution ID: 22

Type: **not specified**

## **Fast signal processing for multi-pixel SiPM imaging system**

*Tuesday 31 May 2016 16:10 (25 minutes)*

**Presenter:** DIEHL, Inge

**Session Classification:** Miscellaneous

Contribution ID: 23

Type: **not specified**

## **RADEM, NIRCA and SIPHRA ASICs for space applications**

*Friday 3 June 2016 10:50 (25 minutes)*

**Presenters:** MEIER, Dirk (IDEAS and CERN); MEIER, Dirk (IDEAS)

**Session Classification:** Space Applications

Contribution ID: 24

Type: **not specified**

## ABCStar for ATLAS Strips

*Wednesday 1 June 2016 09:00 (25 minutes)*

**Presenter:** ANGHINOLFI, Francis (CERN)

**Session Classification:** LHC upgrades

Contribution ID: 25

Type: **not specified**

## **SALT ASIC for LHCb tracking**

*Wednesday 1 June 2016 09:25 (25 minutes)*

**Presenter:** SWIENTEK, Krzysztof Piotr (AGH University of Science and Technology (PL))

**Session Classification:** LHC upgrades

Contribution ID: 26

Type: **not specified**

## PS chip development

*Wednesday 1 June 2016 09:50 (25 minutes)*

**Presenter:** KLOUKINAS, Kostas (CERN)

**Session Classification:** LHC upgrades

Contribution ID: 27

Type: **not specified**

## **DC-DC converters In front-end systems**

*Wednesday 1 June 2016 10:50 (25 minutes)*

**Presenter:** KLEIN, Katja (Rheinisch-Westfaelische Tech. Hoch. (DE))

**Session Classification:** LHC upgrades



Contribution ID: 28

Type: **not specified**

## CHIPIX65 prototype matrix chip

*Wednesday 1 June 2016 11:15 (25 minutes)*

**Presenter:** DEMARIA, Lino (Universita e INFN Torino (IT))

**Session Classification:** LHC upgrades

Contribution ID: 29

Type: **not specified**

## **Low-power front-end for the readout of GEM detectors in the CMS Experiment**

*Thursday 2 June 2016 09:30 (25 minutes)*

**Presenter:** DABROWSKI, Mieczyslaw Maria (KU Leuven (BE))

**Session Classification:** FE for Gas Detectors

Contribution ID: **30**

Type: **not specified**

## **Pixels for ALICE tracker upgrade**

*Wednesday 1 June 2016 11:40 (25 minutes)*

**Presenter:** KUGATHASAN, Thanushan (CERN)

**Session Classification:** LHC upgrades

Contribution ID: **31**

Type: **not specified**

## **VMM ASIC**

*Thursday 2 June 2016 09:55 (25 minutes)*

**Presenter:** DE GERONIMO, Gianluigi (Brookhaven National Laboratory (US))

**Session Classification:** FE for Gas Detectors

Contribution ID: 32

Type: **not specified**

## Hybrid pixels of LHCb

*Wednesday 1 June 2016 12:05 (25 minutes)*

**Presenter:** VAN BEUZEKOM, Martin (Nikhef National institute for subatomic physics (NL))

**Session Classification:** LHC upgrades

Contribution ID: 33

Type: **not specified**

## **Progress on the LPD detector and new activities at RAL**

*Thursday 2 June 2016 10:50 (25 minutes)*

**Presenter:** FRENCH, Marcus Julian (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** XFEL detectors

Contribution ID: 34

Type: **not specified**

## **The 3D digital SiPM for nEXO**

*Wednesday 1 June 2016 14:00 (25 minutes)*

**Presenter:** PRATTE, Jean-Francois (Universite de Sherbrooke)

**Session Classification:** 3D integration

Contribution ID: 35

Type: **not specified**

## **The readout ASIC for the DSSC camera for the European XFEL**

*Thursday 2 June 2016 11:15 (25 minutes)*

**Presenter:** ERDINGER, Florian (University of Heidelberg)

**Session Classification:** XFEL detectors



Contribution ID: **36**

Type: **not specified**

## **3D integration technology –status**

*Wednesday 1 June 2016 14:25 (25 minutes)*

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

**Session Classification:** 3D integration

Contribution ID: 37

Type: **not specified**

## PERCIVAL CMOS imager

*Thursday 2 June 2016 11:40 (25 minutes)*

**Presenter:** MARRAS, Alessandro (Deutsches Elektronen-Synchrotron)

**Session Classification:** XFEL detectors

Contribution ID: **38**

Type: **not specified**

## **VIPIC-Large 3D pixel readout for XPCS**

*Wednesday 1 June 2016 14:50 (25 minutes)*

**Presenter:** FAHIM, Farah (Fermi National Accelerator Lab. (US))

**Session Classification:** 3D integration

Contribution ID: 39

Type: **not specified**

## **Mega-Hertz imagers for the European XFEL**

*Thursday 2 June 2016 12:05 (25 minutes)*

**Presenter:** TRUNK, Ulrich

**Session Classification:** XFEL detectors

Contribution ID: 40

Type: **not specified**

## **LCLS and LCLSII**

*Thursday 2 June 2016 14:00 (25 minutes)*

**Presenter:** CARAGIULO, Pietro (SLAC)

**Session Classification:** Other photon detectors

Contribution ID: 41

Type: **not specified**

## Monch detector

*Thursday 2 June 2016 14:25 (25 minutes)*

**Presenter:** DINAPOLI, Roberto (Paul Scherrer Institut)

**Session Classification:** Other photon detectors

Contribution ID: 42

Type: **not specified**

## **SOPHIAS for the X-ray Free-Electron Laser Experiments**

*Thursday 2 June 2016 14:50 (25 minutes)*

**Presenter:** HATSUI, Takaki (RIKEN)

**Session Classification:** Other photon detectors

Contribution ID: 43

Type: **not specified**

## CLICPix

*Thursday 2 June 2016 15:45 (25 minutes)*

**Presenter:** VALERIO, Pierpaolo (CERN)

**Session Classification:** Advanced pixels



Contribution ID: 44

Type: **not specified**

## Ultra fast photon counting chip

*Thursday 2 June 2016 16:10 (25 minutes)*

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

**Session Classification:** Advanced pixels

Contribution ID: 45

Type: **not specified**

## **An asynchronous pixel front-end channel in 65 nm CMOS for the HL-LHC experiment upgrades**

*Thursday 2 June 2016 16:35 (25 minutes)*

**Presenter:** RATTI, Lodovico (Universita e INFN, Pavia (IT))

**Session Classification:** Advanced pixels

Contribution ID: 46

Type: **not specified**

## **Introduction**

*Tuesday 31 May 2016 09:00 (15 minutes)*

**Session Classification:** Introduction

Contribution ID: 47

Type: **not specified**

## **Spectroscopic imaging detectors for hard X-ray applications**

*Tuesday 31 May 2016 17:00 (25 minutes)*

**Presenter:** SELLER, Paul (RAL)

**Session Classification:** Miscellaneous

Contribution ID: 48

Type: **not specified**

## **Pinned Photodiode for Image Sensors**

*Thursday 2 June 2016 08:45 (45 minutes)*

**Presenter:** TERANISHI, Nobukazu

**Session Classification:** Keynote

Contribution ID: 49

Type: **not specified**

## Registration

*Monday 30 May 2016 16:30 (1h 30m)*

**Session Classification:** Registration

Contribution ID: 50

Type: **not specified**

## Registration

*Tuesday 31 May 2016 08:30 (30 minutes)*

**Session Classification:** Registration

Contribution ID: 51

Type: **not specified**

## **Electronics in particle physics - personal experience**

*Tuesday 31 May 2016 09:15 (15 minutes)*

**Presenter:** Prof. TURALA, Michal (Polish Academy of Arts and Sciences (PL))

**Session Classification:** Introduction



Contribution ID: 52

Type: **not specified**

## **11th Front-End Electronics Workshop 2018**

*Thursday 2 June 2016 12:30 (10 minutes)*

**Presenter:** PRATTE, Jean-Francois (Universite de Sherbrooke)

**Session Classification:** XFEL detectors