

**VERTEX2014: The 23rd  
International Workshop on  
Vertex Detectors**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Opening

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

**Presenter:** DOLEZAL, Zdenek (Charles University (CZ))

Contribution ID: 2

Type: **not specified**

## **ATLAS pixel detector: Operational experience and Run1->Run2 transition**

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

**Presenter:** LA ROSA, Alessandro (Universite de Geneve (CH))

**Session Classification:** Operation, performance, issues of current experiments

Contribution ID: 3

Type: **not specified**

## **ATLAS strip detector: Operational experience and Run1->Run2 transition**

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

**Presenter:** NAGAI, Koichi (University of Oxford (GB))

**Session Classification:** Operation, performance, issues of current experiments

Contribution ID: 4

Type: **not specified**

## **CMS pixel detector: Operational experience and Run 1->Run2 transition**

*Monday 15 September 2014 12:30 (30 minutes)*

**Presenter:** DE COSA, Annapaola (Universitaet Zuerich (CH))

**Session Classification:** Operation, performance, issues of current experiments

Contribution ID: 5

Type: **not specified**

## **CMS strip detector: Operational experience and Run 1->Run2 transition**

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

**Presenter:** Dr BUTZ, Erik (KIT - Karlsruhe Institute of Technology (DE))

**Session Classification:** Operation, performance, issues of current experiments

Contribution ID: 6

Type: **not specified**

## **LHCb Silicon Detectors: Operational Experience and Run1->Run2 transition**

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

**Presenter:** ELSASSER, Christian Urs (Universitaet Zuerich (CH))

**Session Classification:** Operation, performance, issues of current experiments

Contribution ID: 7

Type: **not specified**

## **Operational experience and performance of the present ALICE ITS**

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

**Presenter:** Dr SENYUKOV, Serhiy (National Academy of Sciences of Ukraine (UA))

**Session Classification:** Operation, performance, issues of current experiments



Contribution ID: 8

Type: **not specified**

## Upgrade of the ALICE ITS

*Monday 15 September 2014 16:00 (30 minutes)*

**Presenter:** REIDT, Felix (Ruprecht-Karls-Universitaet Heidelberg (DE))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 9

Type: **not specified**

## Upgrade of the LHCb VeLo

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

**Presenter:** SCHINDLER, Heinrich (CERN)

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: **10**

Type: **not specified**

## **LHCb Upgrade: Upstream Tracker**

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

**Presenter:** Ms LIONETTO, Federica (Universitaet Zuerich (CH))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 11

Type: **not specified**

## **Upgrades of ATLAS inner detector for HL-LHC (pixels)**

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

**Presenter:** GROSSE-KNETTER, Joern (Georg-August-Universitaet Goettingen (DE))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 12

Type: **not specified**

## **Upgrades of ATLAS inner detector for HL-LHC (strips)**

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

**Presenter:** LOHWASSER, Kristin (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 13

Type: **not specified**

## **Upgrades of CMS inner detector for HL-LHC (pixels)**

*Tuesday 16 September 2014 10:30 (30 minutes)*

**Presenter:** MUSICH, Marco (INFN Torino (IT))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 14

Type: **not specified**

## **Upgrades of CMS outer detector for HL-LHC**

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

**Presenter:** SGUAZZONI, Giacomo (INFN (IT))

**Session Classification:** Detectors in Preparation: LHC

Contribution ID: 15

Type: **not specified**

## Upgrade of the STAR silicon detectors

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

**Presenter:** SZELEZNIAK, Michal (Institut Pluridisciplinaire Hubert Curien (FR))

**Session Classification:** Detectors in Preparation: non-LHC



Contribution ID: 16

Type: **not specified**

## **Belle II PXD detector**

*Tuesday 16 September 2014 14:00 (30 minutes)*

**Presenter:** SCHNELL, Michael (University Bonn)

**Session Classification:** Detectors in Preparation: non-LHC

Contribution ID: 17

Type: **not specified**

## **Belle II SVD detector**

*Tuesday 16 September 2014 14:30 (30 minutes)*

**Presenter:** VITALE, Lorenzo (Universita e INFN (IT))

**Session Classification:** Detectors in Preparation: non-LHC

Contribution ID: **18**

Type: **not specified**

## **NA62: Gigatracker**

*Tuesday 16 September 2014 15:00 (30 minutes)*

**Presenter:** VELGHE, Bob (Universite Catholique de Louvain (UCL) (BE))

**Session Classification:** Detectors in Preparation: non-LHC

Contribution ID: **20**

Type: **not specified**

## **Vertexing and tracking detectors at the ILC**

*Tuesday 16 September 2014 16:00 (30 minutes)*

**Presenter:** BESSON, Auguste Guillaume (Institut Pluridisciplinaire Hubert Curien (FR))

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 21

Type: **not specified**

## **R&D for the Vertexing at CLIC**

*Tuesday 16 September 2014 16:30 (30 minutes)*

**Presenter:** REDFORD, Sophie (CERN)

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 22

Type: **not specified**

## Overview of the MAPS detectors

*Tuesday 16 September 2014 17:00 (30 minutes)*

**Presenter:** WILSON, Fergus (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 23

Type: **not specified**

## **DEPFET detector for future collider experiments**

*Tuesday 16 September 2014 17:30 (30 minutes)*

**Presenter:** KOFFMANE, Christian (MPI für Physik)

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 24

Type: **not specified**

## **RD50 overview**

*Wednesday 17 September 2014 08:45 (30 minutes)*

**Presenter:** FERNANDEZ GARCIA, Marcos (Universidad de Cantabria (ES))

**Session Classification:** Radiation Hardness



Contribution ID: 25

Type: **not specified**

## Overview of the diamond detectors

*Wednesday 17 September 2014 09:15 (30 minutes)*

**Presenter:** OH, Alexander (University of Manchester (GB))

**Session Classification:** Radiation Hardness

Contribution ID: 26

Type: **not specified**

## **3D detectors in ATLAS**

*Wednesday 17 September 2014 09:45 (30 minutes)*

**Presenter:** GRINSTEIN, Sebastian (Universitat Autònoma de Barcelona (ES))

**Session Classification:** Radiation Hardness

Contribution ID: 27

Type: **not specified**

## **World irradiation facilities for silicon detectors**

*Wednesday 17 September 2014 10:15 (30 minutes)*

**Presenter:** CINDRO, Vladimir (Jozef Stefan Institute (SI))

**Session Classification:** Radiation Hardness

Contribution ID: 28

Type: **not specified**

## Tracking at FermiLAT

*Wednesday 17 September 2014 11:15 (45 minutes)*

**Presenter:** TAJIMA, Hiroyasu (SLAC)

**Session Classification:** Non-HEP applications

Contribution ID: **30**

Type: **not specified**

## **Neutron Position Sensitive Detectors for the ESS**

*Thursday 18 September 2014 09:00 (30 minutes)*

**Presenter:** KIRSTEIN, Oliver

**Session Classification:** Non-HEP applications

Contribution ID: **31**

Type: **not specified**

## **Simulation of irradiated detectors**

*Thursday 18 September 2014 09:30 (30 minutes)*

**Presenter:** DALAL, Ranjeet (University of Delhi)

**Session Classification:** R&D and Detector Simulations

Contribution ID: **32**

Type: **not specified**

## **Devices optimised for avalanche multiplication**

*Thursday 18 September 2014 10:00 (30 minutes)*

**Presenter:** GRECO, Virginia (Instituto de Fisica Corpuscular (ES))

**Session Classification:** R&D and Detector Simulations

Contribution ID: 33

Type: **not specified**

## **Characterization and Directional Visualization of Space Radiation Quanta on Low Earth Orbit with Timepix-based compact Spacecraft Payload**

*Thursday 18 September 2014 12:30 (30 minutes)*

**Presenter:** Mr GRANJA, Carlos (Czech Technical University (CZ))

**Session Classification:** R&D and Detector Simulations



Contribution ID: **34**

Type: **not specified**

## **Advanced TCT setups**

*Thursday 18 September 2014 10:30 (30 minutes)*

**Presenter:** KRAMBERGER, Gregor (Jozef Stefan Institute (SI))

**Session Classification:** R&D and Detector Simulations

Contribution ID: 35

Type: **not specified**

## **SOI pixel development**

*Thursday 18 September 2014 11:30 (30 minutes)*

**Presenter:** HARA, Kazuhiko (University of Tsukuba (JP))

**Session Classification:** R&D and Detector Simulations

Contribution ID: 36

Type: **not specified**

## Operation and Performance of AMS-02 Silicon Tracker

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

**Presenter:** SAOUTER, Pierre Erwan (Universite de Geneve (CH))

**Session Classification:** Non-HEP applications

**Track Classification:** Non-HEP applications

Contribution ID: 37

Type: **not specified**

## Overview of HV-CMOS devices

*Thursday 18 September 2014 12:00 (30 minutes)*

**Presenter:** MUENSTERMANN, Daniel (Universite de Geneve (CH))

**Session Classification:** R&D and Detector Simulations

**Track Classification:** R&D and Detector Simulations

Contribution ID: **38**

Type: **not specified**

## **ATLAS FTK: Fast Track Trigger**

*Thursday 18 September 2014 14:00 (30 minutes)*

**Presenter:** IIZAWA, Tomoya (Waseda University (JP))

**Session Classification:** Vertexing and tracking methods

Contribution ID: 39

Type: **not specified**

## **Vertexing and tracking SW at LHCb**

*Thursday 18 September 2014 15:00 (30 minutes)*

**Presenter:** BOWEN, Espen Eie (Universitaet Zuerich (CH))

**Session Classification:** Vertexing and tracking methods

Contribution ID: 40

Type: **not specified**

## **Vertexing and tracking SW at Belle II**

*Thursday 18 September 2014 15:30 (30 minutes)*

**Presenter:** SCHLÜTER, Tobias (LMU München)

**Session Classification:** Vertexing and tracking methods

Contribution ID: 41

Type: **not specified**

## **Vertexing software and methods for the ILC (covering ILD and SiD)**

*Thursday 18 September 2014 16:00 (30 minutes)*

**Presenter:** VOUSINAS, Georgios Gerasimos (Institut Pluridisciplinaire Hubert Curien (FR))

**Session Classification:** Vertexing and tracking methods



Contribution ID: 42

Type: **not specified**

## **Vertexing and tracking algorithms at high pile-up (CMS)**

*Thursday 18 September 2014 14:30 (30 minutes)*

**Presenter:** CERATI, Giuseppe (Univ. of California San Diego (US))

**Session Classification:** Vertexing and tracking methods

Contribution ID: 43

Type: **not specified**

## **Microchannel cooling methods in tracking detectors**

*Friday 19 September 2014 09:00 (30 minutes)*

**Presenter:** PETAGNA, Paolo (CERN)

**Session Classification:** Electronics and Integration, TRG

Contribution ID: 44

Type: **not specified**

## **Edgeless and slim-edge detectors**

*Friday 19 September 2014 09:30 (30 minutes)*

**Presenter:** Dr BLUE, Andrew James (University of Glasgow (GB))

**Session Classification:** Electronics and Integration, TRG

Contribution ID: 45

Type: **not specified**

## **65 nm technology for HEP: status and perspectives**

*Friday 19 September 2014 10:00 (30 minutes)*

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

**Session Classification:** Electronics and Integration, TRG

Contribution ID: 46

Type: **not specified**

## Overview of the powering schemes for vertexing and tracking detectors

*Friday 19 September 2014 10:30 (30 minutes)*

**Presenter:** PHILLIPS, Peter (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** Electronics and Integration, TRG

Contribution ID: 47

Type: **not specified**

## **3D integration at radiation imaging detectors**

*Friday 19 September 2014 11:30 (30 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (US))

**Session Classification:** Electronics and Integration, TRG

Contribution ID: 49

Type: **not specified**

## **Vertexing and tracking: summary and outlook**

*Friday 19 September 2014 12:00 (45 minutes)*

**Presenter:** FORTI, Francesco (INFN-Pisa)

**Session Classification:** Summary and Closeout

**Track Classification:** Summary

Contribution ID: 50

Type: **not specified**

## **CMS pixel detector phase-1 upgrade**

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

**Presenter:** ERDMANN, Wolfram (Paul Scherrer Institut (CH))

**Session Classification:** Detectors in Preparation: LHC

**Track Classification:** Detectors in Preparation



Contribution ID: 51

Type: **not specified**

## **Simulations for the HFT–Pixel detector at the STAR experiment**

*Thursday 18 September 2014 16:30 (30 minutes)*

**Presenter:** SIMKO, Miroslav (Czech Technical University (CZ))

**Session Classification:** Poster Session & Tea/Coffee

Contribution ID: 52

Type: **not specified**

## **Properties of Irradiated CdTe Detectors**

*Thursday 18 September 2014 16:30 (30 minutes)*

**Presenter:** KORCHAK, Oleksandr (Czech Technical University (CZ))

**Session Classification:** Poster Session & Tea/Coffee

**Track Classification:** Poster Session

Contribution ID: 53

Type: **not specified**

## **Evaluation of Bulk and Surface Radiation Damage of Silicon Sensors for the ATLAS Upgrade**

*Thursday 18 September 2014 16:30 (30 minutes)*

**Presenter:** MIKESTIKOVA, Marcela (Acad. of Sciences of the Czech Rep. (CZ))

**Session Classification:** Poster Session & Tea/Coffee

**Track Classification:** Poster Session

Contribution ID: 54

Type: **not specified**

## **Cluster-shape based improvement of spatial resolution for the Belle II DEPFET pixel detector**

*Thursday 18 September 2014 16:30 (30 minutes)*

**Presenter:** KODYS, Peter (Charles University (CZ))

**Session Classification:** Poster Session & Tea/Coffee

**Track Classification:** Poster Session

Contribution ID: 55

Type: **not specified**

## Alignment of the Belle II Vertex Detector

*Thursday 18 September 2014 16:30 (30 minutes)*

**Presenter:** BILKA, Tadeas (Charles University (CZ))

**Session Classification:** Poster Session & Tea/Coffee

**Track Classification:** Poster Session

Contribution ID: 57

Type: **not specified**

## **MX-10 Digital particle camera**

*Wednesday 17 September 2014 12:30 (30 minutes)*

**Presenter:** STANISLAV, Vladimir (Jablotron Alarms a.s.)

**Session Classification:** Non-HEP applications

**Track Classification:** Non-HEP applications

Contribution ID: 58

Type: **not specified**

## Workshop Closeout

*Friday 19 September 2014 12:45 (15 minutes)*

**Presenter:** DOLEZAL, Zdenek (Charles University (CZ))

**Session Classification:** Summary and Closeout