

**Vertex2013**

\_.png \_bb \_png”

# **Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Opening and Welcome

*Monday, 16 September 2013 09:00 (15 minutes)*

## Summary

**Presenter:** MOSER, Hans-Günther (Max-Planck-Institut)

Contribution ID: 1

Type: **not specified**

## Summary Talk

*Friday, 20 September 2013 11:30 (45 minutes)*

### Summary

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

Contribution ID: 2

Type: **not specified**

# **Performance and operation experience of the Atlas Semiconductor Tracker and Pixel Detector at the LHC**

*Monday, 16 September 2013 09:15 (30 minutes)*

## **Summary**

**Presenter:** STANECKA, Ewa (Polish Academy of Sciences (PL))

**Session Classification:** Reports from running experiments

Contribution ID: 3

Type: **not specified**

## Overview of the CMS and Pixel Detectors

*Monday, 16 September 2013 09:45 (30 minutes)*

### Summary

**Presenter:** NUTTENS, Claude Patrick (Universite Catholique de Louvain)

**Session Classification:** Reports from running experiments

Contribution ID: 4

Type: **not specified**

## **Performance and operational aspects of LHCb's VELO and ST**

*Monday, 16 September 2013 10:45 (30 minutes)*

### **Summary**

**Presenter:** RODRIGUES, Eduardo (University of Manchester (GB))

**Session Classification:** Reports from running experiments II

Contribution ID: 5

Type: **not specified**

## **Performance of ALICE silicon tracker detector**

*Monday, 16 September 2013 11:15 (30 minutes)*

### **Summary**

**Presenter:** LUPARELLO, Grazia (NIKHEF (NL))

**Session Classification:** Reports from running experiments II

Contribution ID: 6

Type: **not specified**

## **The DEPFET pixel detector for the Belle II experiment at SuperKEKB**

*Monday, 16 September 2013 13:30 (30 minutes)*

### **Summary**

**Presenter:** LACASTA LLACER, Carlos (IFIC-Valencia)

**Session Classification:** Future Experiments in Preparation



Contribution ID: 7

Type: **not specified**

## **Status of the Silicon Strip Tracker for the Belle II Experiment**

*Monday, 16 September 2013 14:00 (30 minutes)*

### **Summary**

**Presenter:** BERGAUER, Thomas (Austrian Academy of Sciences (AT))

**Session Classification:** Future Experiments in Preparation

Contribution ID: 8

Type: **not specified**

# **The MAPS Based Pixel Vertex Detector for the STAR Experiment**

*Monday, 16 September 2013 14:30 (30 minutes)*

## **Summary**

**Presenter:** CONTIN, Giacomo (Lawrence Berkeley National Lab. (US))

**Session Classification:** Future Experiments in Preparation

Contribution ID: 9

Type: **not specified**

# The Micro-Vertex Detector of the Panda Experiment

*Monday, 16 September 2013 15:30 (30 minutes)*

## Summary

**Presenter:** SCHNELL, Robert (Uni Giessen)

**Session Classification:** Future Experiments in Preparation II

Contribution ID: 10

Type: **not specified**

## **The Silicon Detector Systems of the Compressed Baryonic Matter (CBM) experiment at FAIR**

*Monday, 16 September 2013 16:00 (30 minutes)*

### **Summary**

**Presenter:** DEVEAUX, Michael (University Frankfurt)

**Session Classification:** Future Experiments in Preparation II

Contribution ID: 11

Type: **not specified**

## **Detectors for the European X-ray Free Electron Laser: Challenges and Status**

*Monday, 16 September 2013 16:30 (30 minutes)*

### **Summary**

**Presenter:** KUSTER, Markus (European XFEL GmbH)

**Session Classification:** Other Applications

Contribution ID: 12

Type: **not specified**

## **Medical applications – medipix TBC**

### **Summary**

**Presenter:** CAMPBELL, Michael (CERN)

Contribution ID: 13

Type: **not specified**

# **Use of Timepix pixel detectors for position sensitive detection of neutrons and high resolution particle tracking**

*Monday, 16 September 2013 17:00 (30 minutes)*

## **Summary**

**Presenter:** POSPISIL, Stanislav (Czech Technical University (CZ))

**Session Classification:** Other Applications

Contribution ID: 14

Type: **not specified**

## **Upgrades of the ATLAS Pixel Detector - From IBL to Phase 2**

*Tuesday, 17 September 2013 09:00 (30 minutes)*

### **Summary**

**Presenter:** HUEGGING, Fabian (University of Bonn)

**Session Classification:** Upgrade activities for LHC Experiments



Contribution ID: 15

Type: **not specified**

## **ATLAS Phase-2 Strip Tracker Upgrade**

*Tuesday, 17 September 2013 09:30 (30 minutes)*

### **Summary**

**Presenter:** KUEHN, Susanne (Albert-Ludwigs-Universitaet Freiburg (DE))

**Session Classification:** Upgrade activities for LHC Experiments

Contribution ID: 16

Type: **not specified**

## **CMS Pixel detector upgrade plans**

*Tuesday, 17 September 2013 10:00 (30 minutes)*

### **Summary**

**Presenter:** PERREY, Hanno (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Upgrade activities for LHC Experiments

Contribution ID: 17

Type: **not specified**

## **CMS outer tracker upgrade plans**

*Tuesday, 17 September 2013 11:00 (30 minutes)*

### **Summary**

**Presenter:** ECKSTEIN, Doris (DESY)

**Session Classification:** Upgrade activities for LHC Experiments II

Contribution ID: **18**

Type: **not specified**

## **The LHCb Vertex Locator (VELO) Upgrade**

*Tuesday, 17 September 2013 11:30 (30 minutes)*

### **Summary**

**Presenter:** VAN BEUZEKOM, Martin (NIKHEF (NL))

**Session Classification:** Upgrade activities for LHC Experiments II

Contribution ID: **19**

Type: **not specified**

# **The silicon Upstream Tracker for the LHCb upgrade**

*Tuesday, 17 September 2013 12:00 (30 minutes)*

## **Summary**

**Presenter:** NERI, Nicola (Università degli Studi e INFN Milano (IT))

**Session Classification:** Upgrade activities for LHC Experiments II

Contribution ID: 20

Type: **not specified**

# The Upgrade of the ALICE Inner Tracking System

*Tuesday, 17 September 2013 12:30 (30 minutes)*

## Summary

**Presenter:** SITTA, Mario (Universita del Piemonte Orientale (IT))

**Session Classification:** Upgrade activities for LHC Experiments II

Contribution ID: 21

Type: **not specified**

# **Higgs Physics at future Linear Colliders - A Case for precise Vertexing**

*Tuesday, 17 September 2013 14:30 (30 minutes)*

## **Summary**

**Presenter:** SIMON, Frank (Max-Planck-Institut fuer Physik)

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 22

Type: **not specified**

## **Achievements and Perspectives of Vertexing at the ILC with CMOS Pixel Sensors**

*Tuesday, 17 September 2013 15:00 (30 minutes)*

### **Summary**

**Presenter:** WINTER, Marc (CNRS - IN2P3)

**Session Classification:** Vertexing at Future Accelerators



Contribution ID: 23

Type: **not specified**

## **Progress on Silicon-on-Insulator Monolithic Pixel Process**

*Tuesday, 17 September 2013 15:30 (30 minutes)*

### **Summary**

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

**Session Classification:** Vertexing at Future Accelerators

Contribution ID: 24

Type: **not specified**

## **Progress in the development of the vertex detector with fine pixel CCD at the ILC**

*Tuesday, 17 September 2013 16:30 (30 minutes)*

### **Summary**

**Presenter:** CALANCHA PAREDES, Constantino (KEK)

**Session Classification:** Vertexing at Future Accelerators II

Contribution ID: 25

Type: **not specified**

## **DEPFET active pixel detector for a future linear e+ e- collider**

*Tuesday, 17 September 2013 17:00 (30 minutes)*

### **Summary**

**Presenter:** VOS, Marcel (IFIC Valencia (ES))

**Session Classification:** Vertexing at Future Accelerators II

Contribution ID: 26

Type: **not specified**

## **Vertex Detector R&D for CLIC**

*Wednesday, 18 September 2013 09:00 (30 minutes)*

### **Summary**

**Presenter:** KULIS, Szymon (CERN)

**Session Classification:** Vertexing at Future Accelerators III

Contribution ID: 27

Type: **not specified**

## **SPADs for Vertex Tracker detectors in Future Colliders**

*Wednesday, 18 September 2013 09:30 (30 minutes)*

### **Summary**

**Presenter:** DIEGUEZ, Angel (Universitat de Barcelona)

**Session Classification:** Vertexing at Future Accelerators III

Contribution ID: 28

Type: **not specified**

## **Development of radiation tolerant Silicon Sensors - A Status Report of the RD50 Collaboration**

*Wednesday, 18 September 2013 10:00 (30 minutes)*

### **Summary**

**Presenter:** MOLL, Michael (CERN)

**Session Classification:** Radiation Hardness

Contribution ID: 29

Type: **not specified**

## **Planar sensors for future Vertex and Tracking Detectors**

*Wednesday, 18 September 2013 11:00 (30 minutes)*

### **Summary**

**Presenter:** DIERLAMM, Alexander (KIT Karlsruhe)

**Session Classification:** Radiation Hardness II

Contribution ID: **30**

Type: **not specified**

## **3D sensors for tracking detectors: present and future applications**

*Wednesday, 18 September 2013 11:30 (30 minutes)*

### **Summary**

**Presenter:** GEMME, Claudia (Universita degli Studi di Genova Dipart. di Fisica)

**Session Classification:** Radiation Hardness II



Contribution ID: 31

Type: **not specified**

# Diamond Sensors for Energy Frontier Experiments

*Wednesday, 18 September 2013 12:00 (30 minutes)*

## Summary

**Presenter:** SCHNETZER, Steve (Rutgers University)

**Session Classification:** Radiation Hardness II

Contribution ID: 32

Type: **not specified**

## **TCAD Simulation of Silicon Radiation Detectors using commercial simulation products**

*Wednesday, 18 September 2013 12:30 (30 minutes)*

### **Summary**

**Presenter:** BENOIT, Mathieu (CERN LCD)

**Session Classification:** Radiation Hardness II

Contribution ID: 33

Type: **not specified**

## **RD53 – Development of Pixel Readout Integrated Circuits for Extreme Rate and Radiation**

### **Summary**

**Presenter:** CHRISTIAN, David (Fermilab)

Contribution ID: 34

Type: **not specified**

## **The path towards the application of new microelectronic technologies in the AIDA community**

*Thursday, 19 September 2013 09:00 (30 minutes)*

### **Summary**

**Presenter:** RE, Valerio (INFN)

**Session Classification:** Electronics and Integration

Contribution ID: 35

Type: **not specified**

## **Recent results from oxide-oxide and copper-copper bonding for 3D ICs**

*Thursday, 19 September 2013 09:30 (30 minutes)*

### **Summary**

**Presenter:** YAREMA, Raymond (Fermilab)

**Session Classification:** Electronics and Integration

Contribution ID: 36

Type: **not specified**

## **Radiation-hard Silicon Detectors for HL-LHC Detector Upgrades based on (HV/HR-)CMOS Technologies**

*Thursday, 19 September 2013 10:00 (30 minutes)*

### **Summary**

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

**Session Classification:** Electronics and Integration

Contribution ID: 37

Type: **not specified**

## **Development of tracking triggers for future LHC upgrades**

*Thursday, 19 September 2013 11:00 (30 minutes)*

### **Summary**

**Presenter:** PALLA, Fabrizio (Sezione di Pisa (IT))

**Session Classification:** System Aspects

Contribution ID: 38

Type: **not specified**

## **Novel powering schemes for pixel and tracking detectors**

*Thursday, 19 September 2013 11:30 (30 minutes)*

### **Summary**

**Presenter:** FELD, Lutz (Rheinisch-Westfaelische Tech. Hoch. (DE))

**Session Classification:** System Aspects



Contribution ID: 39

Type: **not specified**

## **Low Mass Materials and Vertex Detector Systems**

*Thursday, 19 September 2013 12:00 (30 minutes)*

### **Summary**

**Presenter:** COOPER, William (Fermilab)

**Session Classification:** System Aspects

Contribution ID: 40

Type: **not specified**

## **Past Experiences and Future Trends on Vertex Detector Cooling at LHC**

*Thursday, 19 September 2013 14:00 (30 minutes)*

### **Summary**

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

**Session Classification:** System Aspects II

Contribution ID: 41

Type: **not specified**

# Operational aspects of the VELO cooling system of LHCb

*Thursday, 19 September 2013 14:30 (30 minutes)*

## Summary

**Presenter:** JANS, Eddy (NIKHEF (NL))

**Session Classification:** System Aspects II

Contribution ID: 42

Type: **not specified**

## Low mass integrated cooling

*Thursday, 19 September 2013 15:00 (20 minutes)*

### Summary

**Presenter:** MAPELLI, Alessandro (CERN)

**Session Classification:** System Aspects II

Contribution ID: 43

Type: **not specified**

# The Silicon Strip Tracker of the Fermi Large Area Telescope: the first 5 years

*Thursday, 19 September 2013 16:00 (30 minutes)*

## Summary

**Presenter:** BALDINI, Luca (Pisa University and INFN Pisa)

**Session Classification:** Non-HEP Experiments

Contribution ID: 44

Type: **not specified**

## **Performance, Operational Aspects and Impact on Physics Results of the AMS Tracker**

*Thursday, 19 September 2013 16:30 (30 minutes)*

### **Summary**

**Presenter:** OLIVA, Alberto (Centro de Investigaciones Energ. Medioambientales y Tecn. - (ES)

**Session Classification:** Non-HEP Experiments

Contribution ID: 45

Type: **not specified**

## **X-ray detector developments for synchrotrons**

*Thursday, 19 September 2013 17:00 (30 minutes)*

### **Summary**

**Presenter:** SCHMITT, Bernd (Paul Scherrer Institut)

**Session Classification:** Non-HEP Experiments

Contribution ID: 46

Type: **not specified**

## **Edgeless and slim-edge solutions for silicon pixel sensors**

*Friday, 20 September 2013 09:00 (30 minutes)*

### **Summary**

**Presenter:** DALLA BETTA, Gian-Franco (INFN and University of Trento)

**Session Classification:** New Technologies and Non-HEP Experiments II



Contribution ID: 47

Type: **not specified**

## **Silicon Photomultiplier – Concepts, Characteristics, Prospects**

*Friday, 20 September 2013 09:30 (30 minutes)*

### **Summary**

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

**Session Classification:** New Technologies and Non-HEP Experiments II

Contribution ID: 48

Type: **not specified**

# Direct Electron Detectors for Electron Microscopy

*Friday, 20 September 2013 10:00 (30 minutes)*

## Summary

**Presenter:** FARUQI, Abdul Raffey (MRC, Laboratory Molecular Biology (GB))

**Session Classification:** New Technologies and Non-HEP Experiments II

Contribution ID: 49

Type: **not specified**

# Tracking for proton Computed Tomography

*Friday, 20 September 2013 10:30 (30 minutes)*

## Summary

**Presenter:** CIVININI, Carlo (INFN – Sezione di Firenze)

**Session Classification:** New Technologies and Non-HEP Experiments II