

# **Vertex 2006 15th International Workshop on Vertex Detectors**

## **Report of Contributions**

Contribution ID: 3

Type: **not specified**

# Welcome

*Monday 25 September 2006 09:00 (15 minutes)*

**Presenter:** BILEI, Gian Mario (INFN Perugia)

**Session Classification:** Existing Detectors and experience in their operation

Contribution ID: 4

Type: **not specified**

## **D0 Silicon detector and experience at Tevatron**

*Monday 25 September 2006 09:15 (30 minutes)*

**Primary author:** Dr TSYBYCHEV, Dmitri (Stony Brook Univ.)

**Presenter:** Dr TSYBYCHEV, Dmitri (Stony Brook Univ.)

**Session Classification:** Existing Detectors and experience in their operation

Contribution ID: 5

Type: **not specified**

## **Experience with the vertex detector at Zeus**

*Monday 25 September 2006 09:45 (30 minutes)*

**Primary author:** KOFFEMAN, Els (NIKHEF)

**Presenter:** KOFFEMAN, Els (NIKHEF)

**Session Classification:** Existing Detectors and experience in their operation

Contribution ID: 6

Type: **not specified**

## **Belle SVD operation and upgrade plans**

*Monday 25 September 2006 10:45 (30 minutes)*

**Primary author:** Dr TAJIMA, Osamu (KEK)

**Presenter:** Dr TAJIMA, Osamu (KEK)

**Session Classification:** Future Detectors and experience in their operation

Contribution ID: 7

Type: **not specified**

## **ATLAS Pixel detector overview**

*Monday 25 September 2006 11:15 (30 minutes)*

**Primary author:** CRISTINZIANI, Markus (Bonn Univ)

**Presenter:** CRISTINZIANI, Markus (Bonn Univ)

**Session Classification:** Future Detectors and experience in their operation

Contribution ID: 8

Type: **not specified**

## **System test for the ATLAS Pixel Detector data acquisition**

*Monday 25 September 2006 11:45 (30 minutes)*

**Primary author:** SCHIAVI, Carlo (INFN Genova)

**Presenter:** SCHIAVI, Carlo (INFN Genova)

**Session Classification:** Future Detectors and experience in their operation

Contribution ID: 9

Type: **not specified**

## **CMS Barrel Pixel detector Overview**

*Monday 25 September 2006 14:30 (30 minutes)*

**Primary author:** Dr KAESTLI, Hans-Christian (PSI)

**Presenter:** Dr KAESTLI, Hans-Christian (PSI)

**Session Classification:** Future Detectors and experience in construction & integration



Contribution ID: **10**

Type: **not specified**

## **CMS Endcap Pixel detector Overview**

*Monday 25 September 2006 15:00 (30 minutes)*

**Primary author:** Dr BOLLA, Gino (Purdue Univ.)

**Presenter:** Dr BOLLA, Gino (Purdue Univ.)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: **11**

Type: **not specified**

## **Alice Pixel detector**

*Monday 25 September 2006 15:30 (30 minutes)*

**Primary author:** KLUGE, Alex (CERN)

**Presenter:** KLUGE, Alex (CERN)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: 12

Type: **not specified**

## **ALICE Silicon Drift detector overview and status of construction**

*Monday 25 September 2006 16:30 (30 minutes)*

**Primary author:** BEOLE, Stefania (INFN Torino)

**Presenter:** BEOLE, Stefania (INFN Torino)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: 13

Type: **not specified**

## **CMS Silicon Tracker experience in integration and commissioning**

*Monday 25 September 2006 17:00 (30 minutes)*

**Primary author:** D'ALESSANDRO, Raffaello (Firenze Univ.)

**Presenter:** D'ALESSANDRO, Raffaello (Firenze Univ.)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: 14

Type: **not specified**

## **ATLAS Silicon Tracker experience in integration and commissioning**

*Monday 25 September 2006 17:30 (30 minutes)*

**Primary author:** CARTER, Janet (Cavendish Lab)

**Presenter:** CARTER, Janet (Cavendish Lab)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: 15

Type: **not specified**

## LHCb Vertex Detector

*Monday 25 September 2006 18:00 (30 minutes)*

**Primary author:** BOWCOCK, Themis (Liverpool Univ.)

**Presenter:** BOWCOCK, Themis (Liverpool Univ.)

**Session Classification:** Future Detectors and experience in construction & integration

Contribution ID: 16

Type: **not specified**

## **Total Ionizing Dose Effects in 130-nm Commercial CMOS Technologies for HEP experiments**

*Tuesday 26 September 2006 09:00 (30 minutes)*

**Primary author:** Mr GERARDIN, Simone (INFN Padova)

**Presenter:** Mr GERARDIN, Simone (INFN Padova)

**Session Classification:** Electronics and trigger

Contribution ID: 17

Type: **not specified**

## The use of the tracker in the CMS trigger

*Tuesday 26 September 2006 09:30 (30 minutes)*

**Primary author:** Dr VOS, Marcel (INFN Pisa)

**Presenter:** Dr VOS, Marcel (INFN Pisa)

**Session Classification:** Electronics and trigger



Contribution ID: **18**

Type: **not specified**

## **High Level Trigger with tracks in Atlas**

*Tuesday 26 September 2006 10:00 (30 minutes)*

**Primary author:** Dr SUTTON, Mark (University College London)

**Presenter:** Dr SUTTON, Mark (University College London)

**Session Classification:** Electronics and trigger

Contribution ID: 19

Type: **not specified**

## **Module production for CMS Tracker: problems and achieved quality**

*Tuesday 26 September 2006 11:00 (30 minutes)*

**Primary author:** KRAMMER, Manfred (Hephy Wien)

**Presenter:** KRAMMER, Manfred (Hephy Wien)

**Session Classification:** Module assembly and interconnections

Contribution ID: 20

Type: **not specified**

## **Experience on mass production bump bonding with outside vendors**

*Tuesday 26 September 2006 11:30 (30 minutes)*

**Primary author:** Dr MERKEL, Petra (Purdue Univ.)

**Presenter:** Dr MERKEL, Petra (Purdue Univ.)

**Session Classification:** Module assembly and interconnections

Contribution ID: 21

Type: **not specified**

## **Experience from hybridization of Pixel detectors and future outlook**

*Tuesday 26 September 2006 12:00 (30 minutes)*

**Primary author:** Dr KOENIG, Stefan (PSI)

**Presenter:** Dr KOENIG, Stefan (PSI)

**Session Classification:** Module assembly and interconnections

Contribution ID: 22

Type: **not specified**

## **Vertex and track reconstruction in CMS**

*Tuesday 26 September 2006 14:30 (30 minutes)*

**Primary author:** ADAM, Wolfgang (HEPHY Wien)

**Presenter:** ADAM, Wolfgang (HEPHY Wien)

**Session Classification:** Vertexing , Track Reconstruction

Contribution ID: 23

Type: **not specified**

## **Vertex and track reconstruction in Atlas**

*Tuesday 26 September 2006 15:00 (30 minutes)*

**Primary author:** Dr COSTA, Maria Jose (CERN)

**Presenter:** Dr COSTA, Maria Jose (CERN)

**Session Classification:** Vertexing , Track Reconstruction

Contribution ID: 24

Type: **not specified**

## **Vertex, track reconstruction and luminosity monitor at LHCb**

*Tuesday 26 September 2006 15:30 (30 minutes)*

**Primary author:** LASTOVICKA, Tomas (CERN)

**Presenter:** LASTOVICKA, Tomas (CERN)

**Session Classification:** Vertexing , Track Reconstruction

**Track Classification:** Reconstruction, vertexing and alignment

Contribution ID: 26

Type: **not specified**

## Alignment strategy for the CMS tracker

*Tuesday 26 September 2006 16:30 (30 minutes)*

**Primary author:** , Martin Weber (RWTH Aachen I)

**Presenter:** , Martin Weber (RWTH Aachen I)

**Session Classification:** Alignment strategys for large trackers



Contribution ID: 27

Type: **not specified**

## **Alignment strategy for the ATLAS tracker**

*Tuesday 26 September 2006 17:00 (30 minutes)*

**Primary author:** BRUCKMAN DE RENSTROM, Pawel (Oxford Univ.)

**Presenter:** BRUCKMAN DE RENSTROM, Pawel (Oxford Univ.)

**Session Classification:** Alignment strategys for large trackers

Contribution ID: 28

Type: **not specified**

## **Alignment strategy for LHCb Vertex Detector**

*Tuesday 26 September 2006 17:30 (30 minutes)*

**Primary author:** VIRET, Sebastien (Glasgow Univ.)

**Presenter:** VIRET, Sebastien (Glasgow Univ.)

**Session Classification:** Alignment strategys for large trackers

Contribution ID: **30**

Type: **not specified**

## **Consideration for SLHC pixel Tracker**

*Thursday 28 September 2006 09:00 (30 minutes)*

**Primary author:** Dr HORISBERGER, Roland (PSI)

**Presenter:** Dr HORISBERGER, Roland (PSI)

**Session Classification:** Future Apparatus

**Track Classification:** Future detectors

Contribution ID: **31**

Type: **not specified**

## **Vertex Detector for Super B factory**

*Thursday 28 September 2006 09:30 (30 minutes)*

**Primary author:** Dr NERI, Nicola (INFN Pisa)

**Presenter:** Dr NERI, Nicola (INFN Pisa)

**Session Classification:** Future Apparatus

**Track Classification:** Future detectors

Contribution ID: **32**

Type: **not specified**

## **Optimization of Vertex Detector for ILC.**

*Thursday 28 September 2006 10:00 (30 minutes)*

**Primary author:** Dr NOMEROTSKI, Andrei (Oxford Univ.)

**Presenter:** Dr NOMEROTSKI, Andrei (Oxford Univ.)

**Session Classification:** Future Apparatus

**Track Classification:** Future detectors

Contribution ID: 35

Type: **not specified**

## **3D silicon detectors**

*Thursday 28 September 2006 11:00 (30 minutes)*

**Primary author:** DA VIA, Cinzia (Brunel Univ.)

**Presenter:** DA VIA, Cinzia (Brunel Univ.)

**Session Classification:** Novel detectors

**Track Classification:** Novel detectors and R&D

Contribution ID: 36

Type: **not specified**

## **Edgless silicon detectors**

*Thursday 28 September 2006 11:30 (30 minutes)*

**Primary author:** Dr RUGGIERO, Gennaro (CERN)

**Presenter:** Dr RUGGIERO, Gennaro (CERN)

**Session Classification:** Novel detectors

**Track Classification:** Novel detectors and R&D

Contribution ID: 37

Type: **not specified**

## **3D Process Technology for High Density Electronics**

*Thursday 28 September 2006 12:00 (30 minutes)*

**Primary author:** Dr SUNTHARALINGAM, Vyshnavi (MIT Lincoln Lab.)

**Presenter:** Dr SUNTHARALINGAM, Vyshnavi (MIT Lincoln Lab.)

**Session Classification:** Novel detectors

**Track Classification:** Novel detectors and R&D



Contribution ID: **38**

Type: **not specified**

## **Recent results on new CCD vertex detectors**

*Wednesday 27 September 2006 09:00 (30 minutes)*

**Primary author:** WORM, Steve (RAL)

**Presenter:** WORM, Steve (RAL)

**Session Classification:** Novel detectors

Contribution ID: 39

Type: **not specified**

## Recent Results on DEPFET Detectors

*Wednesday 27 September 2006 09:30 (30 minutes)*

**Primary author:** Prof. FISCHER, Peter (Mannheim Univ.)

**Presenter:** Prof. FISCHER, Peter (Mannheim Univ.)

**Session Classification:** Novel detectors

Contribution ID: 40

Type: **not specified**

## Si Drift Detectors development

*Wednesday 27 September 2006 10:00 (30 minutes)*

**Primary author:** Prof. CASTOLDI, Andrea (Politecnico di Milano)

**Presenter:** Prof. CASTOLDI, Andrea (Politecnico di Milano)

**Session Classification:** Novel detectors

**Track Classification:** Novel detectors and R&D

Contribution ID: 41

Type: **not specified**

## **Radiation hardness experience in CDF/D0 silicon detectors**

*Wednesday 27 September 2006 11:00 (30 minutes)*

**Primary author:** Dr STANITZKI, Marcel (Yale Univ.)

**Presenter:** Dr STANITZKI, Marcel (Yale Univ.)

**Session Classification:** Novel detectors, materials and radiation damage

Contribution ID: 42

Type: **not specified**

## **Status of diamond detectors and their application**

*Wednesday 27 September 2006 11:30 (30 minutes)*

**Primary author:** WALLNY, Rainer (UCLA)

**Presenter:** WALLNY, Rainer (UCLA)

**Session Classification:** Novel detectors, materials and radiation damage

Contribution ID: 43

Type: **not specified**

## **Czochralski Silicon Sensors status of development**

*Wednesday 27 September 2006 12:00 (30 minutes)*

**Primary author:** MESSINEO, Alberto (Pisa Univ.)

**Presenter:** MESSINEO, Alberto (Pisa Univ.)

**Session Classification:** Novel detectors, materials and radiation damage

Contribution ID: 44

Type: **not specified**

## **R&D for a SoI monolithic pixel sensor**

*Thursday 28 September 2006 14:30 (30 minutes)*

**Primary author:** Dr TSUBOYAMA, Toru (KEK)

**Presenter:** Dr TSUBOYAMA, Toru (KEK)

**Session Classification:** Monolithic devices

**Track Classification:** Monolithic devices

Contribution ID: 45

Type: **not specified**

## **CMOS monolithic APS developments and future outlook**

*Thursday 28 September 2006 15:00 (30 minutes)*

**Primary author:** Dr TURCHETTA, Renato (CCLRC RAL)

**Presenter:** Dr TURCHETTA, Renato (CCLRC RAL)

**Session Classification:** Monolithic devices

**Track Classification:** Monolithic devices



Contribution ID: 46

Type: **not specified**

## **Characterization of Active Pixel Sensor fabricated in CMOS 0.18 um technology**

*Thursday 28 September 2006 15:30 (30 minutes)*

**Primary author:** Dr PASSERI, Daniele (Perugia Univ.)

**Presenter:** Dr PASSERI, Daniele (Perugia Univ.)

**Session Classification:** Monolithic devices

**Track Classification:** Monolithic devices

Contribution ID: 47

Type: **not specified**

# **A Novel Monolithic Pixelated Particle Detector implemented in High-Voltage CMOS Technology**

*Thursday 28 September 2006 16:00 (30 minutes)*

**Primary author:** Dr PERIC, Ivan (Mannheim Univ.)

**Presenter:** Dr PERIC, Ivan (Mannheim Univ.)

**Session Classification:** Monolithic devices

**Track Classification:** Monolithic devices

Contribution ID: 48

Type: **not specified**

## **AMS Silicon Tracker: experience in construction and integration**

*Thursday 28 September 2006 17:00 (30 minutes)*

**Primary author:** BURGER, William (INFN Perugia)

**Presenter:** BURGER, William (INFN Perugia)

**Session Classification:** Other Application: Astroparticle

**Track Classification:** Applications to other fields

Contribution ID: 49

Type: **not specified**

## **Pamela Silicon Tracker experience and operations**

*Thursday 28 September 2006 17:30 (30 minutes)*

**Primary author:** Dr RICCIARINI, Sergio Bruno (INFN Firenze)

**Presenter:** Dr RICCIARINI, Sergio Bruno (INFN Firenze)

**Session Classification:** Other Application: Astroparticle

Contribution ID: 50

Type: **not specified**

## **GLAST Silicon Tracker beam test results**

*Thursday 28 September 2006 18:00 (30 minutes)*

**Primary author:** Dr GERMANI, Stefano (INFN Perugia)

**Presenter:** Dr GERMANI, Stefano (INFN Perugia)

**Session Classification:** Other Application: Astroparticle

Contribution ID: 51

Type: **not specified**

## **Silicon pixel detectors for cristallography and imaging of biological samples: first results and perspectives**

*Friday 29 September 2006 09:00 (30 minutes)*

**Primary author:** Dr SCOPELLITI, Pasquale Emanuele (Università dell'Insubria)

**Presenter:** Dr SCOPELLITI, Pasquale Emanuele (Università dell'Insubria)

**Session Classification:** Other Applications

Contribution ID: 52

Type: **not specified**

## **MEDIPIX collaboration -spectroscopy pixellated quantum imaging devices**

*Friday 29 September 2006 09:30 (30 minutes)*

**Primary author:** POSPISIL, Stanislav (Czech Technical Univ. of Prague)

**Presenter:** POSPISIL, Stanislav (Czech Technical Univ. of Prague)

**Session Classification:** Other Applications

Contribution ID: 53

Type: **not specified**

## **Overview of Developments of Silicon Photomultiplier Detectors**

*Friday 29 September 2006 10:00 (30 minutes)*

**Primary author:** Dr RENKER, Dieter (PSI)

**Presenter:** Dr RENKER, Dieter (PSI)

**Session Classification:** Other Applications



Contribution ID: 54

Type: **not specified**

## The Technology of the LSST Focal Plane

*Friday 29 September 2006 11:00 (30 minutes)*

**Primary author:** Dr O'CONNOR, Paul (Brookhaven Nat. Lab)

**Presenter:** Dr O'CONNOR, Paul (Brookhaven Nat. Lab)

**Session Classification:** Other Applications

Contribution ID: 55

Type: **not specified**

## **Development of a Silicon Tracking and Vertex Detection System for the CBM Experiment at FAIR**

*Friday 29 September 2006 11:30 (30 minutes)*

**Primary author:** HEUSER, Johann (GSI)

**Presenter:** HEUSER, Johann (GSI)

**Session Classification:** Other Applications

Contribution ID: 56

Type: **not specified**

## Summary talk

*Friday 29 September 2006 12:00 (45 minutes)*

**Primary author:** CLARK, Allan (Geneva Univ.)

**Presenter:** CLARK, Allan (Geneva Univ.)

**Session Classification:** Other Applications

Contribution ID: 57

Type: **not specified**

## **test do not mind**

**Primary author:** ZUCCON, Paolo (CERN)

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

Contribution ID: 58

Type: **not specified**

## **Comparison between p-type and n-type substrate technologies for silicon detectors for very high luminosity collider**

*Wednesday 27 September 2006 12:30 (30 minutes)*

**Primary author:** ARTUSO, Marina (Department of Physics)

**Presenters:** ARTUSO, Marina (Syracuse Univ.); ARTUSO, Marina (Department of Physics)

**Session Classification:** Novel detectors, materials and radiation damage

Contribution ID: 59

Type: **not specified**

## **Gossip : Gaseus Pixel**

*Wednesday 27 September 2006 13:00 (15 minutes)*

**Primary author:** KOFFEMAN, Els (NIKHEF)

**Presenter:** KOFFEMAN, Els (NIKHEF)

**Session Classification:** Novel detectors, materials and radiation damage