

## **Session Program**

**8-14 Jun 2011**



# **TIPP 2011 - 2nd International Conference on Technology and Instrumentation in Particle Physics**

## ***Semiconductor Detectors***

Chicago, Sheraton Hotel  
301 East Water Street Chicago, IL 60611

## Thursday 9 June

14:00

### Semiconductor Detectors

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Prof. Marko Mikuz, Stefania Beole

14:00–14:20

#### Silicon sensor technologies for ATLAS IBL upgrade

**Speaker**

Dr Philippe Grenier

14:20–14:40

#### Silicon sensor R&D for an upgraded CMS Tracker in HL-LHC

**Speaker**

Dr Selcuk Cihangir

14:40–15:00

#### Silicon Strip Detectors for the ATLAS sLHC Upgrade

**Speaker**

Dr Anthony Affolder

15:00–15:20

#### Performance of Silicon n-in-p Pixel Detectors irradiated up to $5 \times 10^{15}$ n eq. /cm<sup>2</sup> for the future ATLAS Upgrades

**Speaker**

Dr Anna Macchiolo

15:30

16:00

### Semiconductor Detectors: Overview Session

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Paula Collins, Petra Riedler

16:00–16:35

#### Semiconductor Detectors Overview

**Speaker**

David Christian

16:35–17:10

#### Silicon for High-Luminosity Tracking Detectors - Recent RD50 Results

**Speaker**

Ulrich Parzefall

17:10–17:45

#### Future of pixels in non HEP

**Speaker**

Harry Van Der Graaf

17:50

## Friday 10 June

14:00

### Semiconductor Detectors

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 9 | **Conveners:** Petra Riedler, Anna Macchiolo

14:00–14:20

#### Mechanical design of the PHENIX VTX and FVTX vertex detectors

**Speaker**

Mr Walter Sondheim

14:20–14:40

#### Results from the NA62 Gigatracker prototype: a low-mass and sub-ns time resolution silicon pixel detector

**Speaker**

Dr Massimiliano Fiorini

14:40–15:00

#### The LHCb VELO Upgrade

**Speaker**

Daniel Hynds

15:00–15:20

#### High Precision Vertexing at the Belle-II Experiment

**Speaker**

Dr Jelena Ninkovic

15:30

# Saturday 11 June

08:30

## Semiconductor Detectors

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 8 | **Conveners:** Massimiliano Fiorini, Laci Andricek

**08:30–08:50** **Operational experience with the ATLAS Pixel Detector at the LHC**

### Speaker

Markus Keil

**08:50–09:10** **Performance of the CMS Pixel Detector at the LHC**

### Speaker

Morris Swartz

**09:10–09:30**

**Calibration, operation and performance of the ALICE Silicon Drift Detectors in pp and PbPb collisions**

### Speaker

Dr Stefania Beole

**09:30–09:50**

**Performance of the LHCb Vertex Locator**

### Speaker

Dr Thomas Latham

**09:50–10:10**

**An EUDET/AIDA pixel beam telescope for detector development**

### Speaker

Dr Igor Rubinskiy

10:30

11:00

## Semiconductor Detectors

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Ulrich Parzefall, Markus Keil

**11:00–11:20** **Recent progress of the ATLAS Planar Pixel Sensor R&D Project**

### Speaker

Marco Bomben

**11:20–11:40**

**Diamond for high energy radiation and particle detection**

### Speaker

Prof. Marko Mikuz

**11:40–12:00**

**3D pixel devices; design, production and characterisation in test beams**

### Speaker

Dr Aaron Mac Raighne

**12:00–12:20**

**New semiconductor 2D position-sensitive detector**

### Speaker

Mrs Francisca Munoz Sanchez

12:40

12:20-12:40

**A new solid state tracking detector: Electron Emission Membranes and a MEMS made vacuum electron multiplier****Speaker**

Harry Van Der Graaf

14:00

**Semiconductor Detectors****Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Harry Van Der Graaf, Anthony Affolder

14:00-14:20

**System implications of the different powering distributions for the ATLAS Upgrade silicon tracker****Speaker**

Dr Sergio Diez-Cornell

14:20-14:40

**Applications and imaging techniques of a Si/CdTe Compton gamma-ray camera****Speaker**

Dr Shin'ichiro Takeda

14:40-15:00

**High Resolution X-ray Imaging Sensor with SOI CMOS Technology****Speaker**

Mr Ayaki Takeda

15:00-15:20

**Optimization of Strip Isolation for Silicon Sensors****Speaker**

Manfred Valentan

15:20-15:40

**Variations in CVD Diamond Detector's response to radiations with the crystal's defects compared with calculated values from MC code (PENELOPE) at low energy Mammographic X-ray range****Speaker**

Dr Yusuf Zakari

15:40

16:00

**Semiconductor Detectors****Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Paula Collins, Simon Kwan

16:00-16:20

**Operational experience and aging studies of the CDF Run II Silicon Vertex Detector****Speaker**

Dr Benedetto Di Ruzza

16:20-16:40

**Radiation Damage to D0 Silicon Microstrip Detector****Speaker**

Dr Zhenyu Ye

16:40-17:00

**ATLAS Silicon Microstrip Tracker Operation and Performance****Speaker**

Victoria Moeller

17:00-17:20

Performance of LHCb Silicon Tracker detector in the LHC

Speaker

Johan Luisier

17:20-17:40

CMS Silicon Strip Tracker Performance

Speaker

Dr Jean-Laurent Agram

18:00

# Monday 13 June

14:00

## Semiconductor Detectors

**Session** | **Location:** Sheraton Hotel, Chicago Ballroom 10 | **Conveners:** Paula Collins, Petra Riedler

14:00–14:20

### CMOS Monolithic Active Pixel Sensors for vertexing, tracking and calorimetry

#### Speaker

Mr Tony Price

14:20–14:40

### Recent progress of the pixel detectors R&D based on the SOI technology

#### Speaker

Dr Toshinobu Miyoshi

14:40–15:00

### Ultra-thin fully depleted DEPFET active pixel sensors

#### Speaker

Ladislav Andricek

15:00–15:20

### SLID-ICV Vertical Integration Technology for the ATLAS Pixel Upgrades

#### Speaker

Dr Anna Macchiolo

15:20–15:40

### Sensor Studies for SLHC Using CMS Pixel-Based Telescope

#### Speaker

Lorenzo Uplegger

15:40–16:00

### Overview on measured properties of edgeless detectors and their use in high energy physics

#### Speaker

Dr Juha Kalliopuska

16:00