

## **Session Program**

**8-14 Jun 2011**



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

## ***Photon Detectors***

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

## Friday 10 June

16:00

### Photon Detectors

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Tsuyoshi Nakaya

16:00-16:25 **Recent progress in vacuum photon detectors from Hamamatsu**

**Speaker**

Mr Yuji Yoshizawa

16:25-16:50

**Development of Ring Imaging Cherenkov counter for Belle II experiment at super KEKB**

**Speaker**

Mr Shuichi Iwata

16:50-17:10 **Development of large-aperture Hybrid Avalanche Photo-Detector**

**Speaker**

Toshinori Abe

17:10-17:30 **Characterization of the QUartz Photon Intensifying Detector (QUPID)**

**Speaker**

Mr Artin Teymourian

17:30

## Saturday 11 June

08:30

### Photon Detectors

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Dr Razmik Mirzoyan

08:30-08:55 **MCP-PMT development for Belle-II TOP counter**

**Speaker**

Dr Kenji Inami

08:55-09:20

**The “DIRC-like FTOF”: a time-of-flight Cherenkov detector for particle identification at SuperB**

**Speaker**

Mr Leonid Burmistrov

09:20-09:45

**Development of THGEM-based photon detectors for the upgrade of COMPASS RICH-1**

**Speaker**

Dr Fulvio Tessarotto

09:45-10:05 **A RICH Detector for CLAS12 Spectrometer**

**Speaker**

Dr Ahmed El Alaoui

10:05-10:30 **Improved PMTs for the Cherenkov Telescope Array**

**Speaker**

Razmik Mirzoyan

10:30

11:00

### Photon Detectors

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Dr Masashi Yokoyama

11:00-11:20

**Development of a UV/X-ray imaging device based on large area gas photomultiplier.**

**Speaker**

Dr Hiroyuki Sekiya

11:20-11:40

**Development of Superconducting Tunnel Junction Photon Detector using Hafnium**

**Speaker**

Prof. Shin-Hong Kim

11:40-12:05

**Performance and Radioactivity Measurements of the Photomultiplier Tubes for the LUX and LZ Dark Matter Experiments**

**Speaker**

Carlos Faham

12:30

**12:05-12:30 Photon Detection Systems for Modern Cherenkov Detectors****Speaker**

Dr Björn Seitz

14:00

**Photon Detectors**

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Norm Buchanan

**14:00-14:20 SiPMs with Bulk Integrated Quench Resistors - Future Perspectives****Speaker**

Dr Jelena Ninkovic

**14:20-14:40 UV Sensitive SiPMs of Very High PDE and Very Low X-talk****Speaker**

Dr Razmik Mirzoyan

**14:40-15:00 The CCharged ANTICounter for the NA62 experiment at CERN****Speaker**

Dr Giulio Saracino

**15:00-15:20****20 cm sealed tube photon counting detectors with novel microchannel plates for imaging and timing applications****Speaker**

Dr Oswald Siegmund

**15:20-15:40****Fast Neutron Induced Nuclear Counter Effect in Hamamatsu Silicon PIN Diodes and APDs****Speaker**

Dr Liyuan Zhang

15:40

16:00

**Photon Detectors**

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Hans-Gunther Moser

**16:00-16:20****Steps Towards 8"x8" Photocathode For The Large Area Picosecond Photodetector Project At Argonne****Speaker**

Dr Zikri Yusof

**16:20-16:40****Composition and thickness dependence of electron-induced secondary electron yield for MgO and Al<sub>2</sub>O<sub>3</sub> from atomic layer deposition****Speaker**

Dr Slade Jokela

**16:40-17:00****Theory and Applications of Transmission Mode Metal (Aluminum) Photocathode****Speaker**

Dr Seon Woo Lee

17:00-17:20

**Revealing the Correlations between Growth Recipe and Microscopic Structure of Multi-alkali Photocathodes**

**Speaker**

Dr Seon Woo Lee

17:20-17:40

**A novel atomic layer deposition method to fabricate economical and robust large area microchannel plates for photodetectors**

**Speaker**

Dr Anil U. Mane

17:40-18:00

**Instrumentation for Theory-Inspired Photocathode Development within the Large Area Picosecond Photodetector (LAPPD) Project**

**Speaker**

Dr JUNQI XIE

18:00

## Monday 13 June

14:00

### Photon Detectors

Session | Location: Sheraton Hotel, Chicago Ballroom 9 | Convener: Karen Byrum

14:00-14:20 **Directly Coupled Scintillator Tiles and Silicon Photomultipliers**

**Speaker**

Dr Alexandre Dychkant

14:20-14:40

### Mechanical Performance of Large Format Underwater Photomultipliers

**Speaker**

Jiajie Ling

14:40-15:00

### RECENT DEVELOPMENTS IN PHOTOMULTIPLIERS AND READ-OUT SYSTEMS

**Speaker**

Dr Jon Howorth

15:00-15:20

### PMT Light Collection Enhancement for LBNE

**Speaker**

Prof. Norm Buchanan

15:20-15:40

### Characterization of 10" and 12" Photomultiplier Tubes for the Long Baseline Neutrino Experiment

**Speaker**

Dr Stanley Seibert

15:40-16:00

### Integration-Level Testing of Sub-Nanosecond Microchannel Plate Detectors for Use in Time-Of-Flight HEP Applications

**Speaker**

Dr Matthew Wetstein

16:00