

# LIGHT 11

## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Introduction to the LIGHT Workshop

*Monday, 31 October 2011 14:10 (20 minutes)*

Photo Sensors in our Life

**Presenters:** LORENZ, Eckart (MPI for Physics); MIRZOYAN, Razmik (MPI for Physics)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 2

Type: **not specified**

## Hybrid Photo Diodes

*Monday, 31 October 2011 14:30 (30 minutes)*

**Presenter:** SCHWEIZER, Thomas (MPI for Physics)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 3

Type: **not specified**

## **How Many Electrons do Photons Generate in a Photocathode?**

*Monday, 31 October 2011 15:00 (30 minutes)*

**Presenter:** HOWORTH, Jon (Photek Ltd.)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 4

Type: **not specified**

## **Extensive Studies of Bright LEDs and Light Sources Based on them**

*Monday, 31 October 2011 16:00 (30 minutes)*

**Presenter:** LUBSANDORZHIEV, Bayarto (Institute for Nuclear Research)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 5

Type: **not specified**

## MELZ PMTs

*Monday, 31 October 2011 16:30 (30 minutes)*

**Presenter:** BELYANCHENKOV, Serguey (MELZ-FEU)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 6

Type: **not specified**

## **Discussion: What One Can Improve in PMTs**

*Monday, 31 October 2011 17:30 (30 minutes)*

Moderator: Razmik Mirzoyan

**Presenter:** ALL

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 7

Type: **not specified**

## **Recent Progress in Vacuum Photon Detectors at Hamamatsu / EDT**

*Tuesday, 1 November 2011 09:30 (30 minutes)*

**Presenter:** YOSHIZAWA, Yuji (Hamamatsu K.K.)

**Session Classification:** New PMT Developments -1-



Contribution ID: 8

Type: **not specified**

## **Visualization of Structure and Composition During Photocathode Composition**

*Tuesday, 1 November 2011 10:00 (30 minutes)*

**Presenter:** ATTENKOFER, Klaus (University of Chicago)

**Session Classification:** New PMT Developments -1-

Contribution ID: 9

Type: **not specified**

## **Large Size MCP-Based Sensors with Ultra-fast Timing**

*Tuesday, 1 November 2011 11:00 (30 minutes)*

**Presenter:** FRISCH, Henry (University of Chicago)

**Session Classification:** New PMT Developments -1-

Contribution ID: **10**

Type: **not specified**

# **The Abalone Spring-Concept, Prototype, Commercialization**

*Tuesday, 1 November 2011 11:30 (30 minutes)*

**Presenter:** FERENC, Daniel (UC Davis)

**Session Classification:** New PMT Developments -1-

Contribution ID: 11

Type: **not specified**

## **Advances in Microchannel Plates for Sealed Tube Detectors**

*Tuesday, 1 November 2011 12:00 (30 minutes)*

**Presenter:** SIEGMUND, Oswald (University of Chicago)

**Session Classification:** New PMT Developments -1-

Contribution ID: 12

Type: **not specified**

## **Discussion: GaN Photocathodes for Sealed Tube MCP Detectors and a Few Other Developments**

*Tuesday, 1 November 2011 14:00 (30 minutes)*

**Presenter:** MODERATOR: OSWALD SIEGMUND

**Session Classification:** New PMT Developments -2-

Contribution ID: 13

Type: **not specified**

## **Light Sensors for CTA and Light Emission Studies of PMT and SiPM**

*Tuesday, 1 November 2011 14:30 (30 minutes)*

**Presenter:** KNÖTIG, Max (MPI for Physics)

**Session Classification:** New PMT Developments -2-

Contribution ID: 14

Type: **not specified**

# Large Area Phototubes for Next Generation Large Scale Astroparticle Physics Experiments

*Tuesday, 1 November 2011 15:00 (30 minutes)*

**Presenter:** LUBSANDORZHIEV, Bayarto (Institute for Nuclear Research)

**Session Classification:** New PMT Developments -2-

Contribution ID: 15

Type: **not specified**

## **Photomultiplier development at ET Enterprises and ADIT Electron Tubes**

*Tuesday, 1 November 2011 16:00 (30 minutes)*

**Presenter:** CORMACK, Andy (ET Enterprises Ltd.)

**Session Classification:** New PMT Developments -2-



Contribution ID: 16

Type: **not specified**

## **Boris Dolgoshein as Scientist, Leader, Pioneer and Senior Friend**

*Wednesday, 2 November 2011 09:30 (30 minutes)*

**Presenter:** VANIACHINE, Alexander (Argonne National Laboratory)

**Session Classification:** SiPM (MPPC, GAPD, .....)

Contribution ID: 17

Type: **not specified**

## **Boris Dolgoshein, One of the Pioneers of SiPM**

*Wednesday, 2 November 2011 10:00 (30 minutes)*

**Presenter:** MIRZOYAN, Razmik (MPI for Physics)

**Session Classification:** SiPM (MPPC, GAPD, .....)

Contribution ID: **18**

Type: **not specified**

## **SiPM from EXCELITAS**

*Wednesday, 2 November 2011 11:00 (30 minutes)*

**Presenter:** BARLOW, Arthur (EXCELITAS Technologies)

**Session Classification:** SiPM (MPPC, GAPD, .....)

Contribution ID: 19

Type: **not specified**

# The Status of the Digital Silicon Photomultiplier Development

*Wednesday, 2 November 2011 11:30 (30 minutes)*

**Presenter:** FRACH, Thomas (Philips Digital Photon Counting)

**Session Classification:** SiPM (MPPC, GAPD, .....)

Contribution ID: 21

Type: **not specified**

## HLL SiMPL

*Wednesday, 2 November 2011 12:00 (30 minutes)*

**Presenter:** NINKOVIC, Jelena (MPI for Physics)

**Session Classification:** SiPM (MPPC, GAPD, .....)

Contribution ID: 22

Type: **not specified**

## **Readout Electronics for SiPM Arrays Used for Nuclear Medical Imaging**

*Thursday, 3 November 2011 09:30 (30 minutes)*

**Presenter:** MOSES, William (LBNL)

**Session Classification:** New Detectors, Measurements and Auxiliary -1-

Contribution ID: 23

Type: **not specified**

## **A New Si-CNT Large Area Photo-Detector**

*Thursday, 3 November 2011 10:00 (30 minutes)*

**Presenter:** AMBROSIO, Michelangelo (INFN Napoli)

**Session Classification:** New Detectors, Measurements and Auxiliary -1-

Contribution ID: 24

Type: **not specified**

## **Cryogenic Light Detectors**

*Thursday, 3 November 2011 11:00 (30 minutes)*

**Presenter:** HUFF, Patrick (MPI for Physics)

**Session Classification:** New Detectors, Measurements and Auxiliary -1-



Contribution ID: 25

Type: **not specified**

## **Timing and Low Temperature Properties of SiPMs**

*Thursday, 3 November 2011 11:30 (30 minutes)*

**Presenter:** COLLAZUOL, Gianmaria (University of Padua)

**Session Classification:** New Detectors, Measurements and Auxiliary -1-

Contribution ID: 26

Type: **not specified**

## **New MPPC Developments by Hamamatsu**

*Thursday, 3 November 2011 12:00 (30 minutes)*

**Presenter:** STROH-VASENEV, Olga (Hamamatsu Photonics Deutschland)

**Session Classification:** New Detectors, Measurements and Auxiliary -1-

Contribution ID: 27

Type: **not specified**

## **Recent Experiments and Modelling of Diamond Dynode PMTs**

*Thursday, 3 November 2011 14:00 (30 minutes)*

**Presenter:** HOWORTH, Jon (Photek Ltd.)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 28

Type: **not specified**

## **3'PMTs for KM3NeT**

*Thursday, 3 November 2011 14:30 (30 minutes)*

**Presenter:** KALYEKIN, Oleg (University of Erlangen)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 29

Type: **not specified**

## Highly Reflective Film

*Thursday, 3 November 2011 15:00 (30 minutes)*

**Presenter:** LORENZ, Eckart (MPI for Physics)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 30

Type: **not specified**

## **Is Spectralon, the Highest Diffuse Reflectivity Material, a Lambertian Scatterer?**

*Thursday, 3 November 2011 16:00 (15 minutes)*

**Presenter:** KELLERMANN, Hanna (MPI for Physics)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 31

Type: **not specified**

## **Absolute Measurements of Light Focused by a Reflector into its Focal Plane**

*Thursday, 3 November 2011 16:15 (15 minutes)*

**Presenter:** KELLERMANN, Hanna (MPI for Physics)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 32

Type: **not specified**

## Use of HPD in a Micro-LIDAR

*Thursday, 3 November 2011 16:30 (15 minutes)*

**Presenter:** FRUCK, Christian (MPI for Physics)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-



Contribution ID: 33

Type: **not specified**

## Discussion: Quo Vadis?

*Thursday, 3 November 2011 17:15 (45 minutes)*

**Presenter:** ALL

**Session Classification:** New Detectors, Measurements and Auxiliary -2-

Contribution ID: 37

Type: **not specified**

## **Fast Afterpulses and Encapsulation of the LENA PMTs**

*Monday, 31 October 2011 17:00 (30 minutes)*

**Presenter:** TIPPMANN, Marc (Technical University of Munich)

**Session Classification:** Vacuum Photo Sensors

Contribution ID: 38

Type: **not specified**

## **Development of a Lower Cost Large Area MCP Photodetector**

*Tuesday, 1 November 2011 16:30 (30 minutes)*

**Presenter:** WAGNER, Bob (Argonne National Laboratory)

**Session Classification:** New PMT Developments -2-

Contribution ID: **39**

Type: **not specified**

## **FACT**

*Wednesday, 2 November 2011 14:00 (30 minutes)*

**Presenter:** LUSTERMANN, Werner (CERN)

Contribution ID: 40

Type: **not specified**

## **Cross Talk, Afterpulses and Photon Detection Efficiency of SiPMs**

*Thursday, 3 November 2011 16:45 (30 minutes)*

**Presenter:** PARA, Adam (Fermi Lab)

**Session Classification:** New Detectors, Measurements and Auxiliary -2-