

## DIRC2017: Workshop on fast Cherenkov detectors

Photon detection, DIRC design and DAQ

August 07 – 09, 2017; Castle Rauschholzhausen, Germany

### Monday, 07 August 2017

#### Welcome

13.00 **Registration**

14.00 **Introduction**

*Michael Düren (JLU Giessen)*

#### Session I: "Optics"

14.10 **Nikon: Manufacturer for Large Fused Silica Plates**

*Hidenori Sugisaki (Nikon Optics)*

14.35 **Fabrication of DIRC Radiator Bars and Plates at InSync, Inc.**

*Tom Tonnessen (InSync Optics)*

15.00 **Belle II TOP Optics**

*Kenji Inami (Nagoya University, High Energy Physics Laboratory)*

#### Session II: "Photon Detectors"

15.25 **HiQE MCP-PMTs latest characteristics and features**

*Dmitry Orlov (Photonis)*

15.50 **Tea and Coffee**

16.20 **Latest Developments of Hamamatsu MCP-PMTs and MPPCs and SiPMs**

*Christoph Seibel (Hamamatsu)*

16.45 **Photek MCP Development**

*Tom Conneely (Photek)*

17.10 **MCP Photodetector Development at Argonne**

*Lei Xia (Argonne National Laboratory)*

17.35 **MCP Lifetime and other Performance Features**

*Albert Lehmann (FAU)*

18.00 **SiPM photo sensors and fast timing readout for the Barrel Time-of-Flight detector in PANDA**

*Ken Suzuki (Österreichische Akademie der Wissenschaften)*

18.30 **Dinner & ( Wine | Beer )**

Tuesday, 08 August 2017

**Session III: "DIRC Systems"**

- 09.00 **Belle-2 / TOP**  
*Toru Iijima (Nagoya University, High Energy Physics Laboratory)*
- 09.30 **The PANDA Barrel DIRC**  
*Jochen Schwiening (GSI)*
- 10.00 **The PANDA Endcap Disc DIRC**  
*Klaus Föhl (JLU Giessen)*
- 10.30 **Tea and Coffee**
- 11.00 **The TORCH Project**  
*Neville Harnew (University of Oxford)*
- 11.30 **The GlueX DIRC Project**  
*Justin Stevens (Jefferson Lab)*
- 12.00 **Particle Identification for a Future EIC Detector**  
*Ilieva Yordanka (Jefferson Lab)*
- 12.30 **Lunch**

**Session III "DIRC Systems" (cnt'd)**

- 14.30 **The High-Performance DIRC for a Future EIC Detector**  
*Greg Kalicy (Jefferson Lab)*
- 15.00 **Disc DIRC PID Algorithms**  
*Mustafa Schmidt (JLU Giessen)*

**Session IV: "RICH Systems"**

- 15.30 **COMPASS RICH-1 and Novel Gaseous Photon Detectors**  
*Fulvio Tassarotto (INFN Trieste)*
- 16.00 **Conference Group Picture**
- 16.15 **Tea and Coffee**
- 16.45 **The HADES RICH upgrade and CBM RICH concept**  
*Vivek Patel (University of Wuppertal)*
- 17.15 **The Aerogel Forward RICH detector for PANDA**  
*Sergey Kononov (Budker Institute of Nuclear Physics)*
- 17.45 **The CLAS12 RICH**  
*Ilaria Balossino (INFN Ferrara)*
- 18.30 **Dinner & ( Wine | Beer )**

**Wednesday, 09 August 2017**

**Session V: "Readout and Electronics"**

- 9.00 **Waveform Sampling Readout - Lessons from the Belle II TOP and application to future DIRC detectors**  
*Gary Varner (University of Hawaii)*
- 9.30 **The TRB/DiRICH FEE + Readout System**  
*Michael Traxler (GSI)*
- 10.00 **PANDA Strip ASIC (PASTA)**  
*Alessandra Lai (Forschungszentrum Jülich)*
- 10.30 **Time resolved single event imaging (x, y, t) with MCP detectors and its potential for DIRCs**  
*Oliver Merle (ProxiVision GmbH)*
- 11.00 **Tea and Coffee**  
**End of Workshop**

**Panda Session**

- 11.30 **Internal PANDA Cherenkov Meeting**
- 12.30 **Lunch break**
- 13.30 **Internal PANDA Cherenkov Meeting (cnt'd)**
- 15.00 **Adjourn**

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