

# **JUNO workshops in Brussels : large PMT electronics, small PMT system and Light Concentrators Proposal**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Introduction and welcome

**Presenters:** CLERBAUX, Barbara (IIHE); Mr YANG, Yifan (ULB)

Contribution ID: 1

Type: **not specified**

# Welcome

*Monday, 14 November 2016 09:15 (5 minutes)*

**Presenters:** CLERBAUX, Barbara (IIHE); Mr YANG, Yifan (ULB)

**Session Classification:** LPMT session

Contribution ID: 2

Type: **not specified**

## Introduction

*Monday, 14 November 2016 09:20 (10 minutes)*

**Presenters:** STAHL, Achim (Aachen); JIANG, Xiaoshan (IHEP)

**Session Classification:** LPMT session

Contribution ID: 3

Type: **not specified**

## HV unit

*Monday, 14 November 2016 09:30 (20 minutes)*

**Presenter:** OLSHEVSKIY, Alexander

**Session Classification:** LPMT session

Contribution ID: 4

Type: **not specified**

## **Vulcan-chip : (oral) status report**

*Monday, 14 November 2016 09:50 (20 minutes)*

**Session Classification:** LPMT session

Contribution ID: 5

Type: **not specified**

## **Tsinghua ADC and package**

*Monday, 14 November 2016 10:10 (20 minutes)*

**Presenter:** WEI, Wei

**Session Classification:** LPMT session

Contribution ID: 6

Type: **not specified**

## GCU

*Monday, 14 November 2016 11:40 (30 minutes)*

**Presenter:** BELLATO, Marco

**Session Classification:** LPMT session



Contribution ID: 7

Type: **not specified**

## Power-board

*Monday, 14 November 2016 10:30 (20 minutes)*

**Presenter:** STEINMANN, Jochen

**Session Classification:** LPMT session

Contribution ID: 8

Type: **not specified**

## **progress report of cables and connectors**

*Monday, 14 November 2016 11:10 (30 minutes)*

**Presenter:** SUN, Yunhua

**Session Classification:** LPMT session

Contribution ID: 9

Type: **not specified**

## Back-end cards

*Tuesday, 15 November 2016 12:30 (15 minutes)*

**Presenter:** YANG, Yifan (ULB)

**Session Classification:** LPMT session

Contribution ID: **10**

Type: **not specified**

## **Proposal for integrating the network switch function into BEC**

**Presenter:** ZHANG, Jie

Contribution ID: **11**

Type: **not specified**

## **Trigger/timing progress and status**

*Tuesday, 15 November 2016 15:40 (20 minutes)*

**Presenter:** GONG, Guanghua

**Session Classification:** LPMT session

Contribution ID: **12**

Type: **not specified**

## **Interface GCU - HV**

Contribution ID: 13

Type: **not specified**

## **status and issues about potting electronics on PMT**

*Monday, 14 November 2016 14:00 (40 minutes)*

**Presenter:** QIN, Zhonghua

**Session Classification:** LPMT session

Contribution ID: **14**

Type: **not specified**

## Status of Cooling



Contribution ID: 15

Type: **not specified**

## **FEC and front--end protec0on progress**

*Monday, 14 November 2016 16:20 (40 minutes)*

**Presenter:** YAN, Xiongbo

**Session Classification:** LPMT session

Contribution ID: **16**

Type: **not specified**

## Decoupling capacitors

Contribution ID: 17

Type: **not specified**

## Integration of HV unit

Contribution ID: **18**

Type: **not specified**

## **Discussion : towards the first prototype**

*Monday, 14 November 2016 17:00 (1 hour)*

**Session Classification:** LPMT session

Contribution ID: **19**

Type: **not specified**

## **Reliability : introduction**

*Tuesday, 15 November 2016 09:00 (10 minutes)*

**Presenter:** STAHL, Achim

**Session Classification:** LPMT session

Contribution ID: 20

Type: **not specified**

## Schedule and reliability

*Tuesday, 15 November 2016 09:30 (50 minutes)*

**Presenter:** JIANG, Xiaoshan

**Session Classification:** LPMT session

Contribution ID: 21

Type: **not specified**

## **reliability test of Tsinghua ADC and FE**

Contribution ID: 22

Type: **not specified**

## **JUNO Electronics Reliability**

*Tuesday, 15 November 2016 10:20 (30 minutes)*

**Presenter:** NING, Zhe

**Session Classification:** LPMT session



Contribution ID: 23

Type: **not specified**

## **Initial failure and unexpected events : discussion**

Contribution ID: 24

Type: **not specified**

## Summary and updates on simulation studies at LLR

*Tuesday, 15 November 2016 15:00 (30 minutes)*

**Presenter:** BUIZZA AVANZINI, Margherita (LLR)

**Session Classification:** LC session

Contribution ID: 25

Type: **not specified**

## **Progress of simulation and prototype test of LC at IHEP**

*Tuesday, 15 November 2016 15:30 (30 minutes)*

**Presenter:** HE, Miao (IHEP)

**Session Classification:** LC session

Contribution ID: 26

Type: **not specified**

## Summary on protection cover for LMPT R&D

*Tuesday, 15 November 2016 16:20 (30 minutes)*

**Presenter:** HE, Miao (IHEP)

**Session Classification:** LC session

Contribution ID: 27

Type: **not specified**

## **Discussion : Next steps and prospects**

*Tuesday, 15 November 2016 16:50 (1h 10m)*

**Session Classification:** LC session

Contribution ID: 28

Type: **not specified**

## **Proposal for integrating the network switch function into BEC**

*Tuesday, 15 November 2016 15:00 (20 minutes)*

**Presenter:** ZHANG, Jie

**Session Classification:** LPMT session

Contribution ID: 29

Type: **not specified**

## **sheduling the first and second prototypes**

*Tuesday, 15 November 2016 16:20 (30 minutes)*

**Session Classification:** LPMT session

Contribution ID: **30**

Type: **not specified**

## **AOB - Discussion and conclusions**

*Tuesday, 15 November 2016 16:50 (1h 10m)*

**Session Classification:** LPMT session



Contribution ID: **31**

Type: **not specified**

## **Discussion : unexpected events**

Contribution ID: **32**

Type: **not specified**

## Early failures and tests

*Tuesday, 15 November 2016 11:40 (20 minutes)*

**Presenter:** STEINMANN, Jochen

**Session Classification:** LPMT session

Contribution ID: 33

Type: **not specified**

## **Unexpected events : generation of a list of events to be considered**

*Tuesday, 15 November 2016 11:10 (30 minutes)*

**Session Classification:** LPMT session

Contribution ID: **34**

Type: **not specified**

## **GCU Production tests**

*Tuesday, 15 November 2016 12:00 (15 minutes)*

**Presenter:** DAL CORSO, Flavio

**Session Classification:** LPMT session

Contribution ID: 35

Type: **not specified**

## Unexpected events : plan for tests

Contribution ID: **36**

Type: **not specified**

## **Status SPMT Physics (overview)**

*Wednesday, 16 November 2016 09:00 (30 minutes)*

**Presenters:** BUIZZA AVANINI, Margherita (LLR); DUSINI, Stefano

**Session Classification:** SPMT session

Contribution ID: 37

Type: **not specified**

## CDR Preparation

*Wednesday, 16 November 2016 09:30 (30 minutes)*

**Presenters:** CABRERA, Anatael (APC); CERNA, Cedric; OCHOA, Pedro

**Session Classification:** SPMT session

Contribution ID: **38**

Type: **not specified**

## Status on HW

*Wednesday, 16 November 2016 10:00 (30 minutes)*

**Session Classification:** SPMT session



Contribution ID: 39

Type: **not specified**

## Status on Readout Electronics

*Wednesday, 16 November 2016 10:30 (20 minutes)*

**Session Classification:** SPMT session

Contribution ID: **40**

Type: **not specified**

## **Status on Test of SPMT samples at IHEP**

*Wednesday, 16 November 2016 11:10 (30 minutes)*

**Session Classification:** SPMT session

Contribution ID: 41

Type: **not specified**

## **SPMT Protection and Installation**

*Wednesday, 16 November 2016 11:40 (30 minutes)*

**Session Classification:** SPMT session

Contribution ID: 42

Type: **not specified**

## **SPMT Cabling Strategy**

*Wednesday, 16 November 2016 12:10 (35 minutes)*

**Session Classification:** SPMT session

Contribution ID: 43

Type: **not specified**

## **Status on Under-Water-Box & Connectors**

*Wednesday, 16 November 2016 14:00 (30 minutes)*

**Session Classification:** SPMT session

Contribution ID: 44

Type: **not specified**

## **Status on PMT Negotiations & Samples**

*Wednesday, 16 November 2016 14:30 (30 minutes)*

**Session Classification:** SPMT session

Contribution ID: 45

Type: **not specified**

## Discussion

*Wednesday, 16 November 2016 15:00 (50 minutes)*

**Session Classification:** SPMT session

Contribution ID: 46

Type: **not specified**

## **PMT Base and Receiver Interface**

*Monday, 14 November 2016 14:40 (40 minutes)*

**Presenter:** GREWING, Christian

**Session Classification:** LPMT session



Contribution ID: 47

Type: **not specified**

## **Interface with electronics and HV from PMT bases**

*Monday, 14 November 2016 15:20 (40 minutes)*

**Presenter:** WANG, Zhimin

**Session Classification:** LPMT session

Contribution ID: 48

Type: **not specified**

## Interface GCU-HV Discussion

*Monday, 14 November 2016 12:10 (35 minutes)*

**Session Classification:** LPMT session

Contribution ID: 49

Type: **not specified**

## Reliability How-To

*Tuesday, 15 November 2016 09:10 (20 minutes)*

**Presenter:** STEINMANN, Jochen

**Session Classification:** LPMT session

Contribution ID: 50

Type: **not specified**

## **A setup to test multiple GCUs with physics events**

*Tuesday, 15 November 2016 12:15 (15 minutes)*

**Presenter:** GARFAGNINI, Alberto

**Session Classification:** LPMT session

Contribution ID: 51

Type: **not specified**

## **Back-of-the-envelop trigger calculations**

*Tuesday, 15 November 2016 15:20 (10 minutes)*

**Presenter:** LIPPI, Ivano

**Session Classification:** LPMT session

Contribution ID: 52

Type: **not specified**

## **Few introductory remarks on GCU synchronisation**

*Tuesday, 15 November 2016 15:30 (10 minutes)*

**Presenter:** LIPPI, Ivano

**Session Classification:** LPMT session