

# **7th SoLid Collaboration Meeting @ IIHE**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Update of Light Yield Studies in Orsay

*Wednesday 3 February 2016 09:00 (30 minutes)*

**Presenter:** BOURSETTE, Delphine

**Session Classification:** Design, construction and simulation

Contribution ID: 1

Type: **not specified**

# Impact of calibration planes on physics performance

*Wednesday 3 February 2016 10:00 (20 minutes)*

**Presenter:** Dr PINERA HERNANDEZ, Ibrahim (Antwerpen University)

**Session Classification:** Design, construction and simulation

Contribution ID: 2

Type: **not specified**

## NUCIFER Muon veto design

**Presenter:** YERMIA, Frederic

Contribution ID: 3

Type: **not specified**

## **Funding and R&D status of Chandler**

**Presenter:** Dr PARK, Jaewon (Virginia Tech)

Contribution ID: 4

Type: **not specified**

## **status report (summary of current activities)**

*Thursday 4 February 2016 09:00 (30 minutes)*

**Session Classification:** Electronics

Contribution ID: 5

Type: **not specified**

## **overview of short term/medium term plan and discussion of critical issues**

*Thursday 4 February 2016 09:30 (30 minutes)*

**Session Classification:** Electronics

Contribution ID: 6

Type: **not specified**

## **requirements & ideas of design for phase-I**

*Thursday 4 February 2016 10:00 (20 minutes)*

**Session Classification:** DAQ + online software



Contribution ID: 7

Type: **not specified**

## **data transfer at BR2 current constraint and options for phase I**

*Thursday 4 February 2016 10:20 (20 minutes)*

**Session Classification:** DAQ + online software

Contribution ID: 8

Type: **not specified**

## **data monitoring**

*Thursday 4 February 2016 10:40 (20 minutes)*

**Session Classification:** DAQ + online software

Contribution ID: 9

Type: **not specified**

## lessons learned from Saffron

*Thursday 4 February 2016 11:20 (20 minutes)*

**Session Classification:** Offline software

Contribution ID: **10**

Type: **not specified**

## **phase-I software developments**

*Thursday 4 February 2016 11:40 (10 minutes)*

**Session Classification:** Offline software

Contribution ID: **11**

Type: **not specified**

## **do we need to handle large amount of MC ?**

*Thursday 4 February 2016 11:50 (10 minutes)*

**Session Classification:** Offline software

Contribution ID: **12**

Type: **not specified**

## **discussion on needs for additional calibration/other databases**

*Thursday 4 February 2016 12:00 (10 minutes)*

**Session Classification:** Offline software

Contribution ID: **13**

Type: **not specified**

## **summarising the parallel session**

*Thursday 4 February 2016 13:50 (1h 30m)*

**Session Classification:** Construction Phase-1

Contribution ID: 14

Type: **not specified**

## **plan and discuss the construction and integration milestones for phase-I in 2016 around ProjectPlace**

*Thursday 4 February 2016 15:40 (2h 10m)*

**Session Classification:** Construction Phase-1



Contribution ID: 15

Type: **not specified**

## **summary MC (G4, read out, saffron integration)**

*Friday 5 February 2016 09:00 (30 minutes)*

**Session Classification:** MC + Analysis SM1

Contribution ID: **16**

Type: **not specified**

## **current status of SM1 calibration, analyses and milestones**

*Friday 5 February 2016 09:30 (30 minutes)*

**Session Classification:** MC + Analysis SM1

Contribution ID: 17

Type: **not specified**

## **roadmap for technotes and officialisation of results for Moriond**

*Friday 5 February 2016 10:20 (30 minutes)*

**Session Classification:** MC + Analysis SM1

Contribution ID: **18**

Type: **not specified**

## **discussion analysis “post-SM1” and inputs for phase-I**

*Friday 5 February 2016 10:50 (30 minutes)*

**Session Classification:** MC + Analysis SM1

Contribution ID: **19**

Type: **not specified**

## **status of competition**

*Friday 5 February 2016 13:00 (20 minutes)*

**Presenter:** Dr VACHERET, Antonin (University of Oxford)

**Session Classification:** Oscillation Physics

Contribution ID: **20**

Type: **not specified**

## **review of the latest reactor calculations**

*Friday 5 February 2016 13:20 (20 minutes)*

**Session Classification:** Oscillation Physics

Contribution ID: **21**

Type: **not specified**

## **oscillation software / reactor inputs**

*Friday 5 February 2016 13:40 (20 minutes)*

**Session Classification:** Oscillation Physics

Contribution ID: 22

Type: **not specified**

## **report of the IB**

*Friday 5 February 2016 14:00 (15 minutes)*

**Session Classification:** SoLid general assembly



Contribution ID: 23

Type: **not specified**

## **date and place for the next meeting(s)**

*Friday 5 February 2016 14:15 (5 minutes)*

**Session Classification:** SoLid general assembly

Contribution ID: 24

Type: **not specified**

## **presentation of publication policy**

*Friday 5 February 2016 14:20 (20 minutes)*

**Presenter:** DE ROECK, Albert

**Session Classification:** SoLid general assembly

Contribution ID: 25

Type: **not specified**

## **publications in preparation: SoLid tech paper**

*Friday 5 February 2016 14:40 (20 minutes)*

**Presenter:** Dr VACHERET, Antonin (University of Oxford)

**Session Classification:** SoLid general assembly

Contribution ID: 26

Type: **not specified**

## **publications in preparation: SoLid SM1 paper**

*Friday 5 February 2016 15:20 (20 minutes)*

**Presenter:** Dr RYDER, Nick (University of Oxford)

**Session Classification:** SoLid general assembly

Contribution ID: 27

Type: **not specified**

## upcoming conferences

*Friday 5 February 2016 15:40 (20 minutes)*

**Presenter:** Dr BONGRAND, Mathieu (LAL CNRS)

**Session Classification:** SoLid general assembly

Contribution ID: **28**

Type: **not specified**

## **migration to docDB**

*Friday 5 February 2016 16:00 (20 minutes)*

**Session Classification:** SoLid general assembly

Contribution ID: 29

Type: **not specified**

## Other collaboration issues

*Friday 5 February 2016 16:20 (10 minutes)*

**Session Classification:** SoLid general assembly

Contribution ID: **30**

Type: **not specified**

## **Readout simulation update**

**Presenter:** Dr PARK, Jaewon (Virginia Tech)



Contribution ID: **31**

Type: **not specified**

## **Energy reconstruction update**

**Presenter:** Dr SCHUNE, Marie Helene (LAL)

Contribution ID: **32**

Type: **not specified**

## **Simple model for cube/fiber optical simulation**

**Authors:** Dr PINERA HERNANDEZ, Ibrahim (Antwerpen University); VERSTRAETEN, Maja (UAntwerpen); Prof. VAN REMORTEL, Nick (Universiteit Antwerpen)

**Presenter:** VERSTRAETEN, Maja (UAntwerpen)

Contribution ID: 33

Type: **not specified**

## **MC/Saffron integration**

**Presenter:** Dr PARK, Jaewon (Virginia Tech)

Contribution ID: 34

Type: **not specified**

## **Planning Co60 gamma calibration MC/data comparison**

**Presenter:** Dr GHYS, Lars (SCK\*CEN)

Contribution ID: 35

Type: **not specified**

## **Discussion: current and future plans**

Contribution ID: 36

Type: **not specified**

## Neutron light yield measurement with AmBe

*Wednesday 3 February 2016 09:30 (10 minutes)*

**Presenter:** Dr VACHERET, Antonin (University of Oxford)

**Session Classification:** Design, construction and simulation

Contribution ID: 37

Type: **not specified**

## Overview of Physics backgrounds

*Wednesday 3 February 2016 09:40 (20 minutes)*

**Presenter:** Dr VACHERET, Antonin (University of Oxford)

**Session Classification:** Design, construction and simulation

Contribution ID: **38**

Type: **not specified**

## **Readout simulation update**

*Wednesday 3 February 2016 10:45 (15 minutes)*

**Presenter:** PARK, Jaewon

**Session Classification:** Design, construction and simulation



Contribution ID: 39

Type: **not specified**

## Energy reconstruction update

*Wednesday 3 February 2016 10:30 (15 minutes)*

**Presenter:** MARIE-HELENE SCHUNE YASMINE AMHIS

**Session Classification:** Design, construction and simulation

Contribution ID: 40

Type: **not specified**

## Simple model for cube/fiber optical simulation

*Wednesday 3 February 2016 11:25 (10 minutes)*

**Presenter:** VERSTRAETEN, Maja

**Session Classification:** Design, construction and simulation

Contribution ID: 41

Type: **not specified**

## **MC/Saffron integration**

*Wednesday 3 February 2016 11:00 (15 minutes)*

**Presenter:** PARK, Jaewon

**Session Classification:** Design, construction and simulation

Contribution ID: 42

Type: **not specified**

## **Planning Co60 gamma calibration MC/data comparison**

*Wednesday 3 February 2016 11:15 (10 minutes)*

**Presenter:** GHYS, Lars

**Session Classification:** Design, construction and simulation

Contribution ID: 43

Type: **not specified**

## **Open Discussion on Simulations: current and future plans**

*Wednesday 3 February 2016 11:35 (25 minutes)*

**Session Classification:** Design, construction and simulation

Contribution ID: 44

Type: **not specified**

## Pre-production system plans

*Wednesday 3 February 2016 09:00 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 45

Type: **not specified**

## **Status and tests of analog and digital boards**

*Wednesday 3 February 2016 09:10 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 46

Type: **not specified**

## **Design changes for full size analog and digital boards**

*Wednesday 3 February 2016 09:20 (10 minutes)*

**Session Classification:** Electronics and DAQ



Contribution ID: 47

Type: **not specified**

## Design changes for boards inside detector

*Wednesday 3 February 2016 09:30 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 48

Type: **not specified**

## Updated cost estimate

*Wednesday 3 February 2016 09:40 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 49

Type: **not specified**

## Data flow and data rates

*Wednesday 3 February 2016 09:50 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: **50**

Type: **not specified**

## Software design

*Wednesday 3 February 2016 10:00 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 51

Type: **not specified**

## Firmware design

*Wednesday 3 February 2016 10:10 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 52

Type: **not specified**

## Timeline and work pan

*Wednesday 3 February 2016 10:20 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 53

Type: **not specified**

## **Initial ideas for testing production boards**

*Wednesday 3 February 2016 10:30 (10 minutes)*

**Session Classification:** Electronics and DAQ

Contribution ID: 54

Type: **not specified**

## Introduction

*Wednesday 3 February 2016 13:30 (10 minutes)*

**Presenter:** YERMIA, Fred

**Session Classification:** Analysis



Contribution ID: 55

Type: **not specified**

## First IBD analysis

*Wednesday 3 February 2016 13:40 (1h 20m)*

**Presenter:** SAUNDERS, Dan

**Session Classification:** Analysis

Contribution ID: 56

Type: **not specified**

## **AmBe Neutron Source Studies in SM1**

*Wednesday 3 February 2016 15:00 (20 minutes)*

**Presenter:** ABREU, Yamiel

**Session Classification:** Analysis

Contribution ID: 57

Type: **not specified**

## **SM1 neutron efficiency measurement using the $^{252}\text{Cf}$ dataset**

*Wednesday 3 February 2016 15:50 (20 minutes)*

**Presenter:** VERCAEMER, Simon

**Session Classification:** Analysis

Contribution ID: 58

Type: **not specified**

## Muon studies

*Wednesday 3 February 2016 16:10 (15 minutes)*

**Presenter:** MOORTGAT, Celine

**Session Classification:** Analysis

Contribution ID: 59

Type: **not specified**

## **After muon events : neutrons**

*Wednesday 3 February 2016 16:25 (20 minutes)*

**Presenter:** KALOUSIS, Leonidas

**Session Classification:** Analysis

Contribution ID: **60**

Type: **not specified**

# **Likelihood Technique for Accidental Background Suppression**

*Wednesday 3 February 2016 16:45 (15 minutes)*

**Presenter:** MICHIELS, Ianthe

**Session Classification:** Analysis