# Theatre of Dreams: Beyond the LHCb Phase 1 Upgrade

### **Report of Contributions**

Theatre of Drea  $\,\cdots\,$  / Report of Contributions

Tea/Coffee

Contribution ID: 0 Type: not specified

**Tea/Coffee** 

Welcome

Contribution ID: 1 Type: not specified

#### Welcome

Wednesday 6 April 2016 09:00 (10 minutes)

**Presenter:** WATTS, Stephen (University of Manchester)

Contribution ID: 2 Type: not specified

#### Searches for NP in CP violation

**Presenter:** SILVESTRINI, Luca (INFN Rome)

Contribution ID: 3 Type: not specified

#### **General Introduction**

Wednesday 6 April 2016 09:15 (25 minutes)

**Presenter:** WILKINSON, Guy (University of Oxford (GB))

Belle-II prospects

Contribution ID: 4 Type: **not specified** 

#### **Belle-II** prospects

Thursday 7 April 2016 11:00 (25 minutes)

**Presenter:** GOLOB, Bostjan (University of Ljubljana)

Contribution ID: 5 Type: **not specified** 

#### ATLAS/CMS prospects

Wednesday 6 April 2016 10:45 (25 minutes)

**Presenter:** PALLA, Fabrizio (Universita di Pisa & INFN (IT))

Contribution ID: 6 Type: **not specified** 

#### Searches for NP in CP violation

Thursday 7 April 2016 09:25 (30 minutes)

**Presenter:** SILVESTRINI, Luca (INFN Rome)

Contribution ID: 7 Type: **not specified** 

#### Searches for NP in rare decays

Thursday 7 April 2016 10:00 (30 minutes)

Presenter: ISIDORI, Gino (Universitaet Zuerich (CH))

Contribution ID: 8 Type: not specified

#### Physics benchmarks beyond LS4

Thursday 7 April 2016 09:00 (20 minutes)

Presenter: VAGNONI, Vincenzo (CERN and INFN Bologna)

Contribution ID: 9 Type: not specified

#### LHC capabilities beyond LS4 for IP8

Wednesday 6 April 2016 09:45 (30 minutes)

Presenter: DE MARIA, Riccardo (CERN)

Theatre of Drea  $\,\cdots\,$  / Report of Contributions

Summary

Contribution ID: 10 Type: not specified

#### **Summary**

Thursday 7 April 2016 15:30 (20 minutes)

Presenter: WILKINSON, Guy (University of Oxford (GB))

Contribution ID: 11 Type: not specified

#### Readout and DAQ after LS4, possibilities and limits.

Thursday 7 April 2016 11:30 (20 minutes)

Presenter: NEUFELD, Niko (CERN)

Session Classification: Readout/DAQ/Trigger

Contribution ID: 12 Type: not specified

### Computing technologies for software trigger after LS4

Thursday 7 April 2016 11:55 (20 minutes)

**Presenter:** WHITEHEAD, Mark Peter (CERN)

Session Classification: Readout/DAQ/Trigger

Contribution ID: 13 Type: not specified

#### **Progress with the TORCH project**

Wednesday 6 April 2016 11:15 (15 minutes)

**Presenter:** HARNEW, Neville (University of Oxford (GB))

Session Classification: TORCH PID

Contribution ID: 14 Type: not specified

#### **TORCH** concept to measure photon time

Wednesday 6 April 2016 11:35 (15 minutes)

**Presenter:** FORTY, Roger (CERN)

Session Classification: TORCH PID

Contribution ID: 15 Type: not specified

#### First results with simulation and plans

Wednesday 6 April 2016 11:55 (15 minutes)

**Presenter:** VAN DIJK, Maarten (University of Bristol (GB))

Session Classification: TORCH PID

Contribution ID: 16 Type: not specified

### Super VELO: Overview, Technologies, Radiation Environment

Thursday 7 April 2016 14:25 (25 minutes)

Presenter: COLLINS, Paula (CERN)

Session Classification: VELO

Contribution ID: 17 Type: not specified

#### Performance studies with full and toy simulations

Thursday 7 April 2016 14:55 (25 minutes)

**Presenter:** HARRISON, Jon (University of Manchester (GB))

Session Classification: VELO

Contribution ID: 18 Type: not specified

#### The present RICH system at 10<sup>34</sup> Hz/cm<sup>2</sup>

Wednesday 6 April 2016 13:15 (15 minutes)

Presenter: D'AMBROSIO, Carmelo (CERN)

Session Classification: RICH PID

Contribution ID: 19 Type: not specified

#### PID performance at 10<sup>34</sup> Hz/cm<sup>2</sup>

Wednesday 6 April 2016 13:35 (20 minutes)

**Presenter:** EASO, Sajan (STFC - Rutherford Appleton Lab. (GB))

Session Classification: RICH PID

Contribution ID: 20 Type: not specified

#### Introduction: Status of the LS3 upgrade

Thursday 7 April 2016 13:20 (15 minutes)

Introduction: Status of the LS3 u ···

**Presenter:** MACHEFERT, Frederic (Laboratoire de l'Accelerateur Lineaire (FR))

Session Classification: CALO PID

Contribution ID: 21 Type: not specified

#### **The Physics Case**

Thursday 7 April 2016 13:40 (15 minutes)

**Presenter:** DETTORI, Francesco (CERN)

Session Classification: CALO PID

Contribution ID: 22 Type: not specified

#### **New technologies**

Thursday 7 April 2016 14:00 (20 minutes)

Presenter: VIRDEE, Jim (Imperial College Sci., Tech. & Med. (GB))

Session Classification: CALO PID

Contribution ID: 23 Type: not specified

#### **UPSTREAM** tracking

Wednesday 6 April 2016 17:15 (15 minutes)

**Presenter:** MARTINELLI, Maurizio (Ecole Polytechnique Federale de Lausanne (CH))

**Session Classification:** TRACKING STATION AT MAGNET SIDES

Contribution ID: 24 Type: not specified

#### Characterisation of the environment

Wednesday 6 April 2016 17:00 (15 minutes)

**Presenter:** BABUSCHKIN, Igor (University of Manchester (GB))

**Session Classification:** TRACKING STATION AT MAGNET SIDES

Contribution ID: 25 Type: not specified

#### General overview (physics, infrastructure)

Wednesday 6 April 2016 16:30 (30 minutes)

**Presenter:** BETTLER, Marc Olivier (CERN)

**Session Classification:** TRACKING STATION AT MAGNET SIDES

Contribution ID: 26 Type: not specified

#### (infrastructure considerations)

**Presenter:** BETTLER, Marc Olivier (CERN)

Contribution ID: 27 Type: not specified

#### **Physics simulations**

**Presenter:** BETTLER, Marc Olivier (CERN)

Contribution ID: 28 Type: not specified

#### Running the current muon system at 2x10<sup>34</sup> Hz/cm2

Wednesday 6 April 2016 14:00 (15 minutes)

Presenter: CARDINI, Alessandro (INFN Cagliari, Italy)

Session Classification: MUON PID

Contribution ID: 29 Type: not specified

## Challenges operating the muon system at 2x10<sup>34</sup> Hz/cm2 and new detector system for high irradiation levels

Wednesday 6 April 2016 14:20 (35 minutes)

**Presenter:** DE SIMONE, Patrizia (Istituto Nazionale Fisica Nucleare Frascati (IT))

Session Classification: MUON PID

Contribution ID: 30 Type: not specified

#### New detector on the most irradiated region

Contribution ID: 31 Type: not specified

#### **Tracker Technology Options**

Wednesday 6 April 2016 15:25 (15 minutes)

Presenter: TUNING, Niels (Nikhef National institute for subatomic physics (NL))

**Session Classification:** TRACKING SYSTEM

Contribution ID: 32 Type: not specified

#### **Occupancy and Ghost Rate Studies**

Wednesday 6 April 2016 15:45 (15 minutes)

**Presenter:** CIEZAREK, Gregory Max (Nikhef National institute for subatomic physics (NL))

Session Classification: TRACKING SYSTEM

Contribution ID: 33 Type: not specified

#### Fast track finders for real-time tracking

Wednesday 6 April 2016 16:05 (15 minutes)

**Presenter:** NERI, Nicola (Università degli Studi e INFN Milano (IT))

**Session Classification:** TRACKING SYSTEM