

ECFA High Luminosity LHC Experiments Workshop - 2013

Report of Contributions

Contribution ID: 0

Type: **not specified**

European Strategy and goal of the workshop

Tuesday 1 October 2013 10:00 (10 minutes)

Presenter: KRAMMER, Manfred (Austrian Academy of Sciences (AT))

Session Classification: Workshop Opening

Contribution ID: 1

Type: **not specified**

The High Luminosity LHC

Tuesday 1 October 2013 10:15 (25 minutes)

Presenter: BORDRY, Frederick (CERN)

Session Classification: Workshop Opening

Contribution ID: 2

Type: **not specified**

ALICE Upgrade programme

Tuesday 1 October 2013 10:45 (25 minutes)

Presenter: RIEGLER, Werner (CERN)

Session Classification: Workshop Opening

Contribution ID: 3

Type: **not specified**

LHCb Upgrade programme

Tuesday 1 October 2013 11:15 (25 minutes)

Presenter: SCHOPPER, Andreas (CERN)

Session Classification: Workshop Opening

Contribution ID: 4

Type: **not specified**

ATLAS Upgrade programme

Tuesday 1 October 2013 11:45 (25 minutes)

Presenter: Dr WENGLER, Thorsten (CERN)

Session Classification: Workshop Opening

Contribution ID: 5

Type: **not specified**

CMS Upgrade programme

Tuesday 1 October 2013 12:15 (25 minutes)

Presenter: SPALDING, Jeffrey (Fermi National Accelerator Lab. (US))

Session Classification: Workshop Opening

Contribution ID: 6

Type: **not specified**

CERN perspective

Tuesday 1 October 2013 12:45 (20 minutes)

Presenter: HEUER, Rolf (CERN)

Session Classification: Workshop Opening

Contribution ID: 7

Type: **not specified**

Theory perspective of the HL-LHC

Tuesday 1 October 2013 14:15 (25 minutes)

Presenters: WEILER, Andreas (Deutsches Elektronen-Synchrotron (DE)); SALAM, Gavin (C)

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: 8

Type: **not specified**

Higgs boson precision measurements

Tuesday 1 October 2013 14:45 (35 minutes)

Presenter: MURRAY, Bill (STFC - Science & Technology Facilities Council (GB))

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: 9

Type: **not specified**

Search for signatures of BSM physics at the HL-LHC with the ATLAS and CMS detectors

Tuesday 1 October 2013 15:25 (35 minutes)

Presenter: MELZER-PELLMANN, Isabell (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: **10**

Type: **not specified**

Requirements from physics to detector and trigger systems at HL-LHC

Tuesday 1 October 2013 16:40 (20 minutes)

Presenter: DAHMES, Bryan (University of Minnesota (US))

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: 11

Type: **not specified**

Heavy Flavour Physics at HL-LHC

Tuesday 1 October 2013 17:05 (25 minutes)

Presenter: SCHUNE, Marie-Helene (Universite de Paris-Sud 11 (FR))

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: 12

Type: **not specified**

Heavy Ion physics prospect at HL-LHC

Tuesday 1 October 2013 17:35 (25 minutes)

Presenter: DAINESE, Andrea (Universita e INFN (IT))

Session Classification: Physics Goals, Theoretical developments and performance reach

Contribution ID: 13

Type: **not specified**

Special requests during HL-LHC

Tuesday 1 October 2013 18:00 (20 minutes)

Presenter: WESSELS, Johannes Peter (Westfaelische Wilhelms-Universitaet Muenster (DE))

Session Classification: Accelerator and Experiments Interface - I

Contribution ID: 14

Type: **not specified**

Pile-up at HL-LHC and possible mitigation

Wednesday 2 October 2013 09:00 (20 minutes)

Presenter: FARTOUKH, Stephane (CERN)

Session Classification: Accelerator and Experiments Interface - II

Contribution ID: 15

Type: **not specified**

Beam instrumentation, machine and experiment protection

Wednesday 2 October 2013 09:25 (20 minutes)

Presenter: Dr BURKHARDT, Helmut (CERN)

Session Classification: Accelerator and Experiments Interface - II

Contribution ID: 16

Type: **not specified**

Activation and radiation issues

Wednesday 2 October 2013 09:50 (20 minutes)

Presenter: BELTRAMELLO, Olga (CERN)

Session Classification: Long Shutdown Constraints and Radiation and Activation Effects

Contribution ID: 17

Type: **not specified**

Infrastructure changes and upgrades

Wednesday 2 October 2013 10:15 (20 minutes)

Presenter: BALTASAR DOS SANTOS PEDROSA, Fernando (CERN)

Session Classification: Long Shutdown Constraints and Radiation and Activation Effects

Contribution ID: **18**

Type: **not specified**

HL-LHC - The challenges in upgrading the experiments

Wednesday 2 October 2013 10:40 (20 minutes)

Presenter: ZEUNER, Wolfram (CERN)

Session Classification: Long Shutdown Constraints and Radiation and Activation Effects

Contribution ID: **19**

Type: **not specified**

Introduction

Wednesday 2 October 2013 11:35 (5 minutes)

Presenter: FARTHOUAT, Philippe (CERN)

Session Classification: Electronics and Readout Systems

Contribution ID: 20

Type: **not specified**

IC designs and technologies

Wednesday 2 October 2013 11:40 (20 minutes)

Presenter: MARCHIORO, Alessandro (CERN)

Session Classification: Electronics and Readout Systems

Contribution ID: 21

Type: **not specified**

Power distribution

Wednesday 2 October 2013 12:05 (15 minutes)

Presenter: PHILLIPS, Peter (STFC - Science & Technology Facilities Council (GB))

Session Classification: Electronics and Readout Systems

Contribution ID: 22

Type: **not specified**

Modular electronics

Wednesday 2 October 2013 12:25 (15 minutes)

Presenter: CACHEMICHE, Jean-Pierre (Centre National de la Recherche Scientifique (FR))

Session Classification: Electronics and Readout Systems

Contribution ID: 23

Type: **not specified**

High speed links

Wednesday 2 October 2013 12:45 (20 minutes)

Presenter: VASEY, Francois (CERN)

Session Classification: Electronics and Readout Systems

Contribution ID: 24

Type: **not specified**

Overview of the Tracker Upgrades

Wednesday 2 October 2013 14:00 (20 minutes)

Presenter: GREGOR, Ingrid (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Tracking Systems and Associated Electronics and Readout

Contribution ID: 25

Type: **not specified**

Development of Radiation Hard Sensor Material

Wednesday 2 October 2013 14:25 (20 minutes)

Presenter: RIEDLER, Petra (CERN)

Session Classification: Tracking Systems and Associated Electronics and Readout

Contribution ID: 26

Type: **not specified**

Advanced Electronics for Tracking Systems

Wednesday 2 October 2013 14:50 (20 minutes)

Presenter: CHRISTIANSEN, Jorgen (CERN)

Session Classification: Tracking Systems and Associated Electronics and Readout

Contribution ID: 27

Type: **not specified**

Novel technologies and materials for thermal management

Wednesday 2 October 2013 15:15 (20 minutes)

Presenter: VERLAAT, Bart (NIKHEF (NL))

Session Classification: Tracking Systems and Associated Electronics and Readout

Contribution ID: 28

Type: **not specified**

Tracking: Summary and Conclusion

Wednesday 2 October 2013 15:40 (10 minutes)

Presenter: ABBANELO, Duccio (CERN)

Session Classification: Tracking Systems and Associated Electronics and Readout

Contribution ID: 29

Type: **not specified**

Introduction, Overview and physics requirement at HL-LHC

Wednesday 2 October 2013 16:30 (25 minutes)

Presenter: MANNELLI, Marcello (CERN)

Session Classification: Calorimetry and Associated Electronics and Readout

Contribution ID: **30**

Type: **not specified**

Calorimetry Electronics

Wednesday 2 October 2013 17:00 (25 minutes)

Presenter: STRAESSNER, Arno (Technische Universitaet Dresden (DE))

Session Classification: Calorimetry and Associated Electronics and Readout

Contribution ID: **31**

Type: **not specified**

Calorimeter detectors

Wednesday 2 October 2013 17:30 (40 minutes)

Presenter: DE BARBARO, Pawel (University of Rochester (US))

Session Classification: Calorimetry and Associated Electronics and Readout

Contribution ID: 32

Type: **not specified**

Calorimetry: Summary and Conclusion

Wednesday 2 October 2013 18:15 (10 minutes)

Presenter: LANNI, Francesco (Brookhaven National Laboratory (US))

Session Classification: Calorimetry and Associated Electronics and Readout

Contribution ID: 33

Type: **not specified**

New Challenges for Muon Detection and Triggering in the HL-LHC Environment

Presenter: SAFONOV, Alexei (Texas A & M University (US))

Contribution ID: 34

Type: **not specified**

Novel Gaseous Detector and Technology R&D

Thursday 3 October 2013 10:15 (20 minutes)

Presenter: ABBRESCIA, Marcello (Universita e INFN (IT))

Session Classification: Muon Systems and Associated Electronics and Readout

Contribution ID: 35

Type: **not specified**

Longevity and Expected Performance of the Existing Muon Systems at the LHC Experiments

Thursday 3 October 2013 09:25 (20 minutes)

Presenter: IENGO, Paolo (INFN Napoli (IT))

Session Classification: Muon Systems and Associated Electronics and Readout

Contribution ID: 36

Type: **not specified**

Muon detector readout and trigger electronics upgrades for the HL-LHC

Thursday 3 October 2013 09:50 (20 minutes)

Presenter: ISHINO, Masaya (Kyoto University (JP))

Session Classification: Muon Systems and Associated Electronics and Readout

Contribution ID: 37

Type: **not specified**

Technology Developments for Trigger, Data Acquisition, Software and Computing

Thursday 3 October 2013 11:10 (15 minutes)

Presenter: NEUFELD, Niko (CERN)

Session Classification: Trigger/DAQ/Offline/Computing

Contribution ID: **38**

Type: **not specified**

Trigger and Data Acquisition at the HL-LHC

Thursday 3 October 2013 11:30 (30 minutes)

Presenter: SMITH, Wesley (University of Wisconsin (US))

Session Classification: Trigger/DAQ/Offline/Computing

Contribution ID: 39

Type: **not specified**

Computing

Thursday 3 October 2013 12:05 (20 minutes)

Presenter: BUNCIC, Predrag (CERN)

Session Classification: Trigger/DAQ/Offline/Computing

Contribution ID: 40

Type: **not specified**

Software

Thursday 3 October 2013 12:30 (20 minutes)

Presenter: ROUSSEAU, David (LAL-Orsay)

Session Classification: Trigger/DAQ/Offline/Computing

Contribution ID: 41

Type: **not specified**

New Challenges for Muon Detection and Triggering in the HL-LHC Environment

Thursday 3 October 2013 09:00 (20 minutes)

Presenter: HOEPFNER, Kerstin (Rheinisch-Westfaelische Tech. Hoch. (DE))

Session Classification: Muon Systems and Associated Electronics and Readout

Contribution ID: 42

Type: **not specified**

Accelerator-experiment interface & LS constraints, summary and next steps

Thursday 3 October 2013 14:00 (20 minutes)

Presenter: DI GIROLAMO, Beniamino (CERN)

Session Classification: Closing session

Contribution ID: 43

Type: **not specified**

Physics goals and detector requirements, summary and next steps

Thursday 3 October 2013 14:25 (20 minutes)

Presenter: Prof. HILL, Chris (Ohio State University (US))

Session Classification: Closing session

Contribution ID: 44

Type: **not specified**

Technology & R&D, summary and next steps

Thursday 3 October 2013 14:50 (20 minutes)

Presenter: SCHMIDT, Burkhard (CERN)

Session Classification: Closing session

Contribution ID: 45

Type: **not specified**

Concluding remarks & future workshops

Thursday 3 October 2013 15:15 (20 minutes)

Presenters: CONTARDO, Didier Claude (Universite Claude Bernard-Lyon I (FR)); Prof. ALLPORT, Philip Patrick (University of Liverpool (GB))

Session Classification: Closing session