

CMS Induction Session for Newcomers

Report of Contributions

Contribution ID: 0

Type: **not specified**

Surface visit - Group 3, 4

Thursday, 9 July 2015 15:50 (1 hour)

Presenters: GADDI, Andrea (CERN); CURE, Benoit (CERN); LAZIC, Dragoslav-Laza (Boston University (US)); FAURE, Jean-Louis (CEA/IRFU, Centre d'étude de Saclay Gif-sur-Yvette (FR)); BACCHETTA, Nicola (Università INFN, Padova (IT)); LUSIN, Sergei (University of Wisconsin (US))

Contribution ID: 1

Type: **not specified**

Safety & Access - Group 1, 2

Thursday, 9 July 2015 16:30 (15 minutes)

Presenter: Mr DUPONT-SAGORIN, Niels (CERN)

Contribution ID: 2

Type: **not specified**

Run, Technical Coordination and BRIL - Group 1, 2

Thursday, 9 July 2015 15:50 (35 minutes)

Presenters: SCHWICK, Christoph (CERN); SCHWICK, Christoph (CERN)

Contribution ID: 3

Type: **not specified**

Underground visit of CMS Service Cavern, Groups 5, 6

Thursday, 9 July 2015 15:50 (1 hour)

Groups 5, 6

Presenters: TSIROU, Andromachi (CERN); LANARO, Armando (University of Wisconsin (US)); BALL, Austin (CERN); BUTZ, Erik (KIT - Karlsruhe Institute of Technology (DE)); ZEUNER, Wolfram (CERN)

Contribution ID: 4

Type: **not specified**

Offline Data Preparation

Friday, 10 July 2015 14:10 (35 minutes)

Overview of offline workflows for the preparation of the data for publications. The talk covers topics in the area of Offline, Physics Performance and Datasets (PPD and Computing: prompt reconstruction and Prompt Calibration Loop, Datasets, Data distribution and Tier structure of our computing, CMS software (CMSSW), Validation and Data Quality Monitoring, MC Production, Alignment & Calibrations, Data Certification, Luminosity bookkeeping.

Presenter: CERMINARA, Gianluca (CERN)

Contribution ID: 5

Type: **not specified**

Practicalities for the Induction Session, including P5 visit

Wednesday, 8 July 2015 13:30 (15 minutes)

Presenter: DABROWSKI, Anne (CERN)

Contribution ID: 6

Type: **not specified**

Surface visit

Thursday, 9 July 2015 13:30 (1 hour)

Groups 5, 6

Presenters: GADDI, Andrea (CERN); CURE, Benoit (CERN); LAZIC, Dragoslav-Laza (Boston University (US)); FAURE, Jean-Louis (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR)); BACCHETTA, Nicola (Universita e INFN, Padova (IT)); LUSIN, Sergei (University of Wisconsin (US))

Contribution ID: 7

Type: **not specified**

Surface visit - Group 1, 2

Thursday, 9 July 2015 14:40 (1 hour)

Presenters: GADDI, Andrea (CERN); CURE, Benoit (CERN); LAZIC, Dragoslav-Laza (Boston University (US)); FAURE, Jean-Louis (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR)); BACHETTA, Nicola (Universita e INFN, Padova (IT)); LUSIN, Sergei (University of Wisconsin (US))

Contribution ID: 8

Type: **not specified**

Special Summer Student Visit Underground

Presenters: STORR, Mick (University of Birmingham (GB)); QUITTNAT, Milena (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: 9

Type: **not specified**

Summer Students bus back to Meryin

Contribution ID: **10**Type: **not specified**

Tracking

Wednesday, 8 July 2015 14:45 (45 minutes)

Overview of particle tracking using the pixels + tracker + muon detectors, including descriptions of each detector, alignment loop, project organizations, people. Needs input from AICa, TK/MUON POG. Example results of performance - vertex location precision, pT resolution, 2-track separation, muon id efficiency, muon trigger efficiency etc. as functions of pileup (# vertices). Longevity & upgrades.

Presenters: HARTMANN, Frank (KIT - Karlsruhe Institute of Technology (DE)); HAUSER, Jay (Univ. of California Los Angeles (US))

Contribution ID: 11

Type: **not specified**

Introduction

Wednesday, 8 July 2015 13:55 (45 minutes)

Overview of CMS objectives, “CMS detector design drivers” and “major decisions”, present detector - including magnet, results so far. Also include management structure (systems, coordination areas), role of the CB, decision-making process, long-term plan (including upgrades in Phase I and Phase II). Brief intro to LHC operations inc. lumi measurements and safety aspects (BRiL)

Presenter: CAMPORESI, Tiziano (CERN)

Contribution ID: 12

Type: **not specified**

Travel to P5 (CMS)

The buses will leave from building 40

Contribution ID: 13

Type: **not specified**

Calorimetry

Wednesday, 8 July 2015 16:55 (45 minutes)

Overview of the history of the CMS calorimeters, their construction/assembly, issues that have arisen during Run I of the LHC, detector performance, benchmark physics processes and long-term prospects (to 2035). Brief overview of ECAL and HCAL organisation.

Presenters: BARNEY, David (CERN); DE BARBARO, Pawel (University of Rochester (US))

Contribution ID: 14

Type: **not specified**

Underground visit of CMS Service Cavern, Groups 1, 2

Thursday, 9 July 2015 13:30 (1 hour)

Groups 1, 2

Presenters: TSIROU, Andromachi (CERN); LANARO, Armando (University of Wisconsin (US)); BALL, Austin (CERN); BUTZ, Erik (KIT - Karlsruhe Institute of Technology (DE)); ZEUNER, Wolfram (CERN)

Contribution ID: 15

Type: **not specified**

Run, Technical Coordination and BRIL - Group 3, 4

Thursday, 9 July 2015 13:30 (30 minutes)

Introduction to RC, TC, P5 surface & underground, interface with LHC, BRIL, safety (machine and personnel, inc. DSS, access requirements etc.), shifts (roles etc.)

Presenters: SCHWICK, Christoph (CERN); SCHWICK, Christoph (CERN)

Contribution ID: **16**

Type: **not specified**

Travel to Preveessin

Contribution ID: 17

Type: **not specified**

Surface visit including control room

Contribution ID: **18**

Type: **not specified**

Travel to Meyrin

Contribution ID: **19**

Type: **not specified**

Visit 904, H4, H2

Presenters: SHARMA, Archana (CERN); LAZIC, Dragoslav-Laza (Boston University (US))

Contribution ID: **20**

Type: **not specified**

Data taking

Friday, 10 July 2015 13:30 (35 minutes)

Overview of the L1 and HLT trigger components, DAQ system, trigger objects and “menus”, rates, and streams.

Presenters: BOCCI, Andrea (CERN); CARLIN, Roberto (Universita e INFN (IT))

Contribution ID: **21**

Type: **not specified**

Visit TIF

Roman pots, PLT, BCM, CO2 cooling, GEM cosmics

Contribution ID: 22

Type: **not specified**

Practicalities

Friday, 10 July 2015 15:15 (30 minutes)

Overview of CMS schools (data analysis, upgrade etc). code of conduct, computing rules, communication aspects (hypernews, egroups, meetings, WGM), CMSSW practicalities, the .cms network. Expectations from being a member of CMS (EPR, shifts, authorship). Secretariat (CMS and user's office), conferences (CINCO, rules for assigning points, priorities, how/who can nominate), publications (CMS Notes of all types, journal publications etc.), CMS guiding

Presenter: Dr BORRAS, Kerstin (DESY)

Contribution ID: 23

Type: **not specified**

Analysis

Friday, 10 July 2015 16:20 (35 minutes)

Overview of organization, publications workflows and related committees: publication committee, statistics committee, etc. CMS specifics like particle flow, analysis release, how to access the data and summary of main aspects of CMS data analysis school will also be given. The physics analysis objectives for 2015 and beyond, based on Run1 results, will be summarized.

Presenters: OLSEN, Jim (Princeton University (US)); MALGERI, Luca (CERN)

Contribution ID: 24

Type: **not specified**

Safety and Access - Group 2

Thursday, 9 July 2015 14:10 (15 minutes)

Presenters: DUPONT, Niels (CERN); Mr DUPONT-SAGORIN, Niels (CERN)

Contribution ID: 25

Type: **not specified**

CMS Collaboration Board & Policies

Friday, 10 July 2015 14:50 (20 minutes)

Presenter: Prof. D'HONDT, Jorgen (Vrije Universiteit Brussel (BE))

Contribution ID: 26

Type: **not specified**

Run, Technical Coordination and BRIL - Group 5, 6

Thursday, 9 July 2015 14:40 (30 minutes)

Presenters: SCHWICK, Christoph (CERN); SCHWICK, Christoph (CERN)

Contribution ID: 27

Type: **not specified**

Underground visit of CMS Service Cavern, Groups 3, 4

Thursday, 9 July 2015 14:40 (1 hour)

Groups, 3, 4

Presenters: TSIROU, Andromachi (CERN); LANARO, Armando (University of Wisconsin (US)); BALL, Austin (CERN); BUTZ, Erik (KIT - Karlsruhe Institute of Technology (DE)); RODRIGUES ANTUNES, Joao (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part); ZEUNER, Wolfram (CERN)

Contribution ID: 28

Type: **not specified**

Aperitif & Surface Visit

Contribution ID: 29

Type: **not specified**

Safety & Access - Group 5, 6

Thursday, 9 July 2015 15:15 (15 minutes)

Presenters: DUPONT, Niels (CERN); Mr DUPONT-SAGORIN, Niels (CERN)

Contribution ID: **30**

Type: **not specified**

Summer student surface

Presenters: STORR, Mick (University of Birmingham (GB)); QUITTNAT, Milena (Eidgenoessische Tech. Hochschule Zuerich (CH))

Contribution ID: **31**

Type: **not specified**

Weekly General Meeting

Wednesday, 8 July 2015 16:00 (30 minutes)

The induction session will connect to the meeting room from the council chamber

Contribution ID: **32**

Type: **not specified**

CMS Communications Group

Wednesday, 8 July 2015 16:30 (20 minutes)

Presenter: PETRILLI, Achille (CERN)