

# **CMS Upgrade Week and Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Muon talk 1

**Presenter:** LOVELESS, Dick (University of Wisconsin (US))

Contribution ID: 2

Type: **not specified**

## DT Upgrade Plans

*Tuesday, 8 November 2011 13:00 (20 minutes)*

**Presenter:** FERNANDEZ BEDOYA, Cristina (Madrid-CIEMAT)

**Session Classification:** Muon Parallel Session

Contribution ID: 3

Type: **not specified**

## RPC Upgrade Plans

*Tuesday, 8 November 2011 13:20 (20 minutes)*

**Presenter:** IASELLI, Pino (Bari)

**Session Classification:** Muon Parallel Session

Contribution ID: 4

Type: **not specified**

## Plans for high-eta GEM Detector

*Tuesday, 8 November 2011 13:40 (20 minutes)*

**Presenter:** SHARMA, Archana (CERN)

**Session Classification:** Muon Parallel Session

Contribution ID: 5

Type: **not specified**

## Status of DCFEB Board

*Tuesday, 8 November 2011 14:00 (20 minutes)*

**Presenter:** BYLSMA, Ben (Ohio State)

**Session Classification:** Muon Parallel Session

Contribution ID: 6

Type: **not specified**

## Status of Fiber Link Connections

*Tuesday, 8 November 2011 14:20 (20 minutes)*

**Presenter:** MAGAZZU, Guido (Santa Barbara)

**Session Classification:** Muon Parallel Session

Contribution ID: 7

Type: **not specified**

## **status of TMB and Radiation Tests**

*Tuesday, 8 November 2011 15:00 (20 minutes)*

**Presenter:** GILMORE, Jason (Texas A & M)

**Session Classification:** Muon Parallel Session

Contribution ID: 8

Type: **not specified**

## ME1/1 Installation Plans

*Tuesday, 8 November 2011 15:20 (20 minutes)*

**Presenter:** PERELYGINE, Victor (Dubna)

**Session Classification:** Muon Parallel Session

Contribution ID: 9

Type: **not specified**

## CSC Factory and FAST Site

*Tuesday, 8 November 2011 15:40 (30 minutes)*

**Presenter:** SALTZBERG, David (UCLA)

**Session Classification:** Muon Parallel Session

Contribution ID: **10**

Type: **not specified**

## Introduction and Welcome

*Monday, 7 November 2011 09:30 (10 minutes)*

**Presenter:** BUTLER, Joel (Fermi National Accelerator Lab. (US))

**Session Classification:** Plenary Session

Contribution ID: **11**

Type: **not specified**

## **Machine progress towards higher luminosity**

*Monday, 7 November 2011 09:40 (30 minutes)*

**Primary author:** Dr ZIMMERMANN, Frank (CERN)

**Presenter:** Dr ZIMMERMANN, Frank (CERN)

**Session Classification:** Plenary Session

Contribution ID: **12**

Type: **not specified**

## Goals for the workshop

*Monday, 7 November 2011 10:10 (30 minutes)*

**Presenter:** Dr NASH, Jordan (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Plenary Session

Contribution ID: **13**

Type: **not specified**

## Planning for Phase 2

Contribution ID: 14

Type: **not specified**

## Physics and Computing Issues

*Monday, 7 November 2011 11:00 (30 minutes)*

**Presenter:** CHEUNG, Harry (Fermi National Accelerator Lab. (US))

**Session Classification:** Plenary Session

Contribution ID: 15

Type: **not specified**

## Planning going forward

*Thursday, 10 November 2011 09:30 (20 minutes)*

**Presenters:** CONTARDO, Didier Claude (Universite Claude Bernard-Lyon I (FR)); SPALDING, Jeffrey (Fermi National Accelerator Lab. (US))

**Session Classification:** Plenary/Summary Session

Contribution ID: **16**

Type: **not specified**

## Muon Summary

*Thursday, 10 November 2011 10:10 (20 minutes)*

**Presenter:** LOVELESS, Dick (University of Wisconsin (US))

**Session Classification:** Plenary/Summary Session

Contribution ID: 17

Type: **not specified**

## HCAL Summary

*Thursday, 10 November 2011 10:30 (20 minutes)*

**Presenter:** Prof. MANS, Jeremy (University of Minnesota (US))

**Session Classification:** Plenary/Summary Session

Contribution ID: **18**

Type: **not specified**

## Pixel Phase I Summary

*Thursday, 10 November 2011 10:50 (20 minutes)*

**Presenter:** DOMINGUEZ, Aaron (University of Nebraska (US))

**Session Classification:** Plenary/Summary Session

Contribution ID: **19**

Type: **not specified**

## Trigger Summary

*Thursday, 10 November 2011 11:10 (20 minutes)*

**Presenter:** TAPPER, Alex (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Plenary/Summary Session

Contribution ID: 20

Type: **not specified**

## Tracking Trigger Task Force Summary

*Thursday, 10 November 2011 11:50 (30 minutes)*

**Presenter:** BOUDOUL, Gaelle (Universite Claude Bernard-Lyon I (FR))

**Session Classification:** Plenary/Summary Session

Contribution ID: **21**

Type: **not specified**

## Forward Calorimetry Task Force Summary

*Thursday, 10 November 2011 12:20 (30 minutes)*

**Presenters:** COX, Brad (University of Virginia); COX, Brad (University of Virginia (US)); COX, Brad (University of Virginia)

**Session Classification:** Plenary/Summary Session

Contribution ID: 22

Type: **not specified**

## Workshop Summary

*Thursday, 10 November 2011 12:50 (20 minutes)*

**Session Classification:** Plenary/Summary Session

Contribution ID: 23

Type: **not specified**

## Testbeam programme for the upgrades

*Wednesday, 9 November 2011 13:30 (20 minutes)*

**Presenter:** LAZIC, Dragoslav-Laza (Boston University (US))

**Session Classification:** Plenary Session

Contribution ID: 24

Type: **not specified**

## Technical progress on the Phase 1 Pixel detector

*Wednesday, 9 November 2011 13:50 (30 minutes)*

**Presenter:** KWAN, Simon (Fermilab)

**Session Classification:** Plenary Session

Contribution ID: 25

Type: **not specified**

## Technical Progress on the Trigger

*Wednesday, 9 November 2011 14:20 (20 minutes)*

**Presenter:** TAPPER, Alex (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Plenary Session

Contribution ID: 26

Type: **not specified**

## Technical Progress on The HCAL

*Wednesday, 9 November 2011 14:40 (20 minutes)*

**Presenter:** WEST, Christopher (Univ. of California Santa Barbara (US))

**Session Classification:** Plenary Session

Contribution ID: 27

Type: **not specified**

## Progress on the Muon Production

*Wednesday, 9 November 2011 15:20 (20 minutes)*

**Presenter:** LOVELESS, Dick (University of Wisconsin (US))

**Session Classification:** Plenary Session

Contribution ID: 28

Type: **not specified**

## System issues for the Upgrade Project

*Thursday, 10 November 2011 09:50 (20 minutes)*

**Presenter:** HANSEN, Magnus (CERN)

**Session Classification:** Plenary/Summary Session

Contribution ID: 29

Type: **not specified**

## R&D on TSV with IpDIA

*Monday, 7 November 2011 15:00 (20 minutes)*

**Presenter:** BLANCHOT, Georges (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **30**

Type: **not specified**

## Module FEA at DESY

*Monday, 7 November 2011 17:30 (20 minutes)*

**Presenter:** MUSSGILLER, Andreas (Deutsches Elektronen-Synchrotron (DE))

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **31**

Type: **not specified**

## **R&D on substrates for hybrids**

*Monday, 7 November 2011 14:00 (20 minutes)*

**Presenter:** BLANCHOT, Georges (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **32**

Type: **not specified**

## **VOL status and perspectives**

**Primary author:** VASEY, Francois (CERN)

Contribution ID: 33

Type: **not specified**

## **Ideas and plans for module mechanics developments**

*Monday, 7 November 2011 18:00 (20 minutes)*

**Presenter:** ONNELA, Antti (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **34**

Type: **not specified**

## Electronics for PS-PT modules

*Monday, 7 November 2011 14:30 (20 minutes)*

**Presenter:** MARCHIORO, Alessandro (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: 35

Type: **not specified**

## **CBC: update on qualification and outlook**

*Monday, 7 November 2011 13:30 (20 minutes)*

**Presenters:** BRAGA, Davide (STFC - Science & Technology Facilities Council (GB)); BRAGA, Davide (RAL/STFC)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: 36

Type: **not specified**

## Overview of layout modeling studies

*Monday, 7 November 2011 18:30 (20 minutes)*

**Presenter:** MERSI, Stefano (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: 37

Type: **not specified**

## VPS module: status of R&D

*Monday, 7 November 2011 16:30 (20 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (US))

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **38**

Type: **not specified**

## **VPS module: electronics architecture**

*Monday, 7 November 2011 17:00 (20 minutes)*

**Presenter:** JOHNSON, Marvin (Fermi National Accelerator Lab. (US))

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **39**

Type: **not specified**

## Diamond Sensors

*Wednesday, 9 November 2011 09:40 (30 minutes)*

**Presenters:** WAGNER, Stephen (University of Colorado at Boulder (US)); WAGNER, Steve (SLAC)

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: **40**

Type: **not specified**

## 3D Sensors at FNAL

*Wednesday, 9 November 2011 10:10 (25 minutes)*

**Presenter:** ALAGOZ, Enver (Purdue University (US))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: 41

Type: **not specified**

## Summary of the HPK-sensor test beams in March and September

*Wednesday, 9 November 2011 11:15 (25 minutes)*

**Presenter:** LUUKKA, Panja-Riina (Helsinki Institute of Physics (FI))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: 42

Type: **not specified**

## Summary of measurements after first irradiation of HPK samples

*Wednesday, 9 November 2011 10:50 (25 minutes)*

**Presenter:** ERFLE, Joachim (Hamburg University (DE))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: 43

Type: **not specified**

# Welcome

*Wednesday, 9 November 2011 09:00 (15 minutes)*

**Presenter:** DIERLAMM, Alexander (KIT - Karlsruhe Institute of Technology (DE))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: 44

Type: **not specified**

## uTCA Back-end Session Welcome

*Monday, 7 November 2011 13:00 (20 minutes)*

**Presenter:** Prof. MANS, Jeremy (University of Minnesota (US))

**Session Classification:** HCAL Parallel

Contribution ID: 45

Type: **not specified**

## Status of AMC13/DTC

*Monday, 7 November 2011 13:20 (30 minutes)*

**Presenter:** HAZEN, Eric Shearer (Boston University (US))

**Session Classification:** HCAL Parallel

Contribution ID: 46

Type: **not specified**

## Status of uHTR

*Monday, 7 November 2011 13:50 (30 minutes)*

**Presenter:** FRAHM, Erich (University of Minnesota (US))

**Session Classification:** HCAL Parallel

Contribution ID: 47

Type: **not specified**

## uTCA DAQ Software

*Monday, 7 November 2011 14:20 (20 minutes)*

**Presenter:** RUMERIO, Paolo (University of Maryland (US))

**Session Classification:** HCAL Parallel

Contribution ID: 48

Type: **not specified**

## Coffee Break

*Monday, 7 November 2011 15:00 (20 minutes)*

**Session Classification:** HCAL Parallel

Contribution ID: 49

Type: **not specified**

## Map to Jim Freeman's House

*Monday, 7 November 2011 15:20 (25 minutes)*

**Session Classification:** HCAL Parallel

Contribution ID: 50

Type: **not specified**

## Optical Splitter Installation for 2012 and LS1

*Monday, 7 November 2011 15:45 (15 minutes)*

**Presenter:** WHITMORE, Julie (Fermi National Accelerator Lab. (US))

**Session Classification:** HCAL Parallel

Contribution ID: 51

Type: **not specified**

## Preparation for HF and HO Reviews

*Monday, 7 November 2011 16:00 (25 minutes)*

**Presenter:** TKACZYK, Slawomir (Fermi National Accelerator Lab. (US))

**Session Classification:** HCAL Parallel

Contribution ID: 52

Type: **not specified**

## **Working Session the HCAL Upgrade TDR and RBX mechanics**

*Monday, 7 November 2011 17:20 (40 minutes)*

**Presenters:** TULLY, Chris (Princeton University (US)); SCHMIDT, Ianos (University of Iowa (US))

**Session Classification:** HCAL Parallel

Contribution ID: 53

Type: **not specified**

## Design of the HF Front-End System

*Monday, 7 November 2011 16:55 (25 minutes)*

**Presenter:** SHAW, Theresa Marie (Fermi National Accelerator Lab. (US))

**Session Classification:** HCAL Parallel

Contribution ID: 54

Type: **not specified**

## Front-end Session Welcome

*Tuesday, 8 November 2011 13:00 (20 minutes)*

**Presenter:** TULLY, Chris (Princeton University (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: 55

Type: **not specified**

## **Progress on Baselining HPK and Ketek and R&D Goals for Radiation Hardness**

*Tuesday, 8 November 2011 13:50 (40 minutes)*

**Presenter:** HEERING, Arjan (University of Notre Dame (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: 56

Type: **not specified**

## Status of QIE10 ASIC and QIE test cards

*Tuesday, 8 November 2011 15:00 (30 minutes)*

**Presenters:** WHITMORE, Julie (Fermi National Accelerator Lab. (US)); SHAW, Theresa Marie (Fermi National Accelerator Lab. (US)); ZIMMERMAN, Tom

**Session Classification:** HCAL Parallel - 2

Contribution ID: 57

Type: **not specified**

## Status of EODU, mixers, and Plans for 2012

*Tuesday, 8 November 2011 14:30 (30 minutes)*

**Presenter:** RUCHTI, Randy (University of Notre Dame (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: 58

Type: **not specified**

## AC/DC Coupling of SiPM

*Tuesday, 8 November 2011 15:30 (30 minutes)*

**Presenter:** Mr LOS, Sergey (Fermilab)

**Session Classification:** HCAL Parallel - 2

Contribution ID: 59

Type: **not specified**

## Coffee Break

*Tuesday, 8 November 2011 16:00 (20 minutes)*

**Session Classification:** HCAL Parallel - 2

Contribution ID: **60**

Type: **not specified**

## Front-end Emulation Firmware for Back-end Testing

*Tuesday, 8 November 2011 16:45 (15 minutes)*

**Presenter:** SHARAN, Manoj Kumar (Saha Institute of Nuclear Physics (IN))

**Session Classification:** HCAL Parallel - 2

Contribution ID: **61**

Type: **not specified**

## Progress on ngCCM

*Tuesday, 8 November 2011 17:00 (20 minutes)*

**Presenters:** Prof. HIROSKY, Bob (University of Virginia (US)); BADEN, Drew (University of Maryland (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: **62**

Type: **not specified**

## Interface and Controls for ngCCM

Contribution ID: **63**

Type: **not specified**

## Planning for HE Test beam in 2012

*Tuesday, 8 November 2011 17:20 (40 minutes)*

**Presenter:** LAZIC, Dragoslav-Laza (Boston University (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: **64**

Type: **not specified**

## Summary of 2012 Test beam results on SiPMs

*Tuesday, 8 November 2011 13:20 (30 minutes)*

**Presenter:** Dr ANDERSON, Jake (Fermi National Accelerator Lab. (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: 65

Type: **not specified**

## Interface Plans with Trigger and DAQ

*Monday, 7 November 2011 14:40 (20 minutes)*

**Session Classification:** HCAL Parallel

Contribution ID: **66**

Type: **not specified**

## Electronics R&D overview

*Monday, 7 November 2011 13:00 (20 minutes)*

**Presenter:** VASEY, Francois (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: 67

Type: **not specified**

## Outlook for data link: LP-GBT

*Monday, 7 November 2011 15:30 (20 minutes)*

**Presenter:** MARCHIORO, Alessandro (CERN)

**Session Classification:** Tracker Phase 2 Parallel

Contribution ID: **68**

Type: **not specified**

## **Radiation and Process induced Defects in Silicon**

*Wednesday, 9 November 2011 09:15 (25 minutes)*

**Presenter:** HAERKOENEN, Jasu (Helsinki Institute of Physics (FI))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: **69**

Type: **not specified**

## Effects of Radiation Damage in the Pixel System

**Presenter:** BOLLA, Gino (Purdue University (US))

Contribution ID: 70

Type: **not specified**

## Computing and Physics issues - other systems

*Thursday, 10 November 2011 09:00 (30 minutes)*

**Presenter:** Prof. DASU, Sridhara (University of Wisconsin (US))

**Session Classification:** Plenary/Summary Session

Contribution ID: 71

Type: **not specified**

## Radiation Damage of current Pixel System

*Wednesday, 9 November 2011 12:05 (25 minutes)*

**Presenter:** BOLLA, Gino (Purdue University (US))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: 72

Type: **not specified**

## Introduction

*Tuesday, 8 November 2011 13:00 (20 minutes)*

**Presenter:** GILL, Karl Aaron (CERN)

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 73

Type: **not specified**

## **BPIX (inc. ROC)**

*Tuesday, 8 November 2011 14:10 (20 minutes)*

**Presenter:** ERDMANN, Wolfram (Paul Scherrer Institut (CH))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 74

Type: **not specified**

## FPIX electronics

*Tuesday, 8 November 2011 14:30 (20 minutes)*

**Presenters:** KWAN, Simon (Fermilab); KWAN, Simon Wing Lok (Fermi National Accelerator Lab. (US))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 75

Type: **not specified**

## **Common sys & integ (inc. beam pipe, LS1 outline)**

*Tuesday, 8 November 2011 13:20 (20 minutes)*

**Presenter:** BACCHETTA, Nicola (Universita e INFN (IT))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 76

Type: **not specified**

## Pilot blade (hardware)

*Tuesday, 8 November 2011 16:10 (20 minutes)*

**Presenters:** KWAN, Simon (Fermilab); KWAN, Simon Wing Lok (Fermi National Accelerator Lab. (US))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 77

Type: **not specified**

## Pilot blade (DAQ, software)

*Tuesday, 8 November 2011 16:30 (20 minutes)*

**Presenters:** Prof. ECKLUND, Karl (Rice University (US)); Dr ECKLUND, Karl (Cornell University)

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 78

Type: **not specified**

## Test beam report (CERN)

*Tuesday, 8 November 2011 15:30 (20 minutes)*

**Presenters:** ELLIOTT-PEISERT, Anna (CERN); GRUNDLER, Ulysses (National Taiwan University (TW))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 79

Type: **not specified**

## High rate test beam at Fermilab

*Tuesday, 8 November 2011 15:50 (20 minutes)*

**Presenters:** CHRISTIAN, David Charles (Fermi National Accelerator Lab. (US)); CHRISTIAN, David (Fermilab)

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: **80**

Type: **not specified**

## Physics/simulations

*Tuesday, 8 November 2011 17:10 (20 minutes)*

**Presenter:** CHEUNG, Harry (Fermi National Accelerator Lab. (US))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: **81**

Type: **not specified**

## CO2 cooling

*Tuesday, 8 November 2011 13:40 (30 minutes)*

**Presenter:** POSTEMA, Hans (CERN)

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: **82**

Type: **not specified**

## Summary of MSSDs

*Wednesday, 9 November 2011 11:40 (25 minutes)*

**Presenter:** CIHANGIR, Selcuk (Fermi National Accelerator Lab. (US))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: **83**

Type: **not specified**

## **ASIC Options beyond 2020**

*Wednesday, 9 November 2011 15:40 (20 minutes)*

**Presenter:** MARCHIORO, Alessandro (CERN)

**Session Classification:** Plenary Session

Contribution ID: **84**

Type: **not specified**

## Overview of Electronics R&D

*Wednesday, 9 November 2011 16:00 (20 minutes)*

**Presenter:** VASEY, Francois (CERN)

**Session Classification:** Plenary Session

Contribution ID: **85**

Type: **not specified**

## Tracker R&D activities

*Wednesday, 9 November 2011 16:20 (20 minutes)*

**Presenter:** ABBANELO, Duccio (CERN)

**Session Classification:** Plenary Session

Contribution ID: **86**

Type: **not specified**

## **Physics with higher and higher pileup - what are the issues?**

*Monday, 7 November 2011 11:30 (30 minutes)*

**Presenter:** KLABBERS, Pamela Renee (University of Wisconsin (US))

**Session Classification:** Plenary Session

Contribution ID: 87

Type: **not specified**

## Introductory Remarks

*Tuesday, 8 November 2011 08:00 (5 minutes)*

There is an EVO booking for the Calorimetry Taskforce Session:

Title: Calorimetry Taskforce Meeting

Description: Meeting of the Forward Calorimetry Taskforce During CMS Upgrade Week at Fermilab. The meeting actually begins at 9am EDT/8am CDT and will run for 5 hours.

Community: CMS

Meeting Access Information:

- Meeting URL

<http://evo.caltech.edu/evoNext/koala.jnlp?meeting=MvM2Ml2e2lDMDt9M9iDe9v>

- Phone Bridge ID: 425 7736

Eastern Standard Time (-0500)

Start 2011-11-08 08:30

End 2011-11-08 13:30

Japan Standard Time (+0900)

Start 2011-11-08 22:30

End 2011-11-09 03:30

Central European Time (+0100)

Start 2011-11-08 14:30

End 2011-11-08 19:30

Pacific Standard Time (-0800)

Start 2011-11-08 05:30

End 2011-11-08 10:30

### EVO Phone Bridge Telephone Numbers:

- USA (Caltech, Pasadena, CA)  
+1 626 395 2112
- Switzerland (CERN, Geneva)  
+41 22 76 71400

**Presenters:** COX, Brad (University of Virginia); RUCHTI, Randy (University of Notre Dame (US))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **88**

Type: **not specified**

## Simulation Strategy and Update

*Tuesday, 8 November 2011 08:25 (30 minutes)*

**Presenters:** LEDOVSKOY, Alexander (University of Virginia (US)); GOUZEVITCH, Maxime (Universite Claude Bernard-Lyon I (FR)); ANDREEV, Vladimir (Russian Academy of Sciences (RU))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 89

Type: **not specified**

## Update on SiPM Photosensor Development

*Tuesday, 8 November 2011 08:55 (20 minutes)*

**Presenters:** HEERING, Arjan (University of Notre Dame (US)); MUSIENKO, Iouri (Fermi National Accelerator Lab. (US))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **90**

Type: **not specified**

## Update of GaAs Photosensor R&D

*Tuesday, 8 November 2011 08:05 (20 minutes)*

**Presenters:** HIROSKY, Bob (University of Virginia (US)); HARMON, Eric (LightSpin, Inc)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **91**

Type: **not specified**

## **Recovery Studies of Proton Irradiated PbWO<sub>4</sub> Crystals**

*Tuesday, 8 November 2011 09:35 (20 minutes)*

**Presenter:** AUFRAY HILLEMANN, Etienne (CERN)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 92

Type: **not specified**

## Hadron Damage in Lead Tungstate

*Tuesday, 8 November 2011 10:55 (30 minutes)*

**Presenter:** NESSI-TEDALDI, Francesca (Eidgenoessische Tech. Hochschule Zuerich (CH))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 93

Type: **not specified**

## Ceramic Materials

*Tuesday, 8 November 2011 12:15 (20 minutes)*

**Presenter:** CHEREPY, Nerine (Lawrence Livermore National Laboratory)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 94

Type: **not specified**

## **Results for Hadron Damage to LYSO Crystals up to HL-LHC Fluences**

*Tuesday, 8 November 2011 11:25 (10 minutes)*

**Presenter:** NESSI-TEDALDI, Francesca (Eidgenoessische Tech. Hochschule Zuerich (CH))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 95

Type: **not specified**

## Introduction

*Tuesday, 8 November 2011 13:00 (20 minutes)*

**Presenter:** TAPPER, Alex (Imperial College Sci., Tech. & Med. (GB))

**Session Classification:** Trigger Parallel 1

Contribution ID: 96

Type: **not specified**

## OptoSLB - ECAL

*Tuesday, 8 November 2011 13:20 (30 minutes)*

**Presenter:** RASTEIRO DA SILVA, Jose Carlos (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

**Session Classification:** Trigger Parallel 1

Contribution ID: 97

Type: **not specified**

# Calorimeter Trigger Design - I

*Tuesday, 8 November 2011 14:10 (30 minutes)*

**Presenter:** GORSKI, Thomas Andrew (University of Wisconsin (US))

**Session Classification:** Trigger Parallel 1

Contribution ID: **98**

Type: **not specified**

## Calorimeter Trigger Design - II

*Tuesday, 8 November 2011 14:40 (30 minutes)*

**Presenter:** NEWBOLD, Dave (University of Bristol (GB))

**Session Classification:** Trigger Parallel 1

Contribution ID: 99

Type: **not specified**

## Report from the Calorimeter Trigger Review

*Tuesday, 8 November 2011 15:10 (20 minutes)*

**Presenter:** VARELA, Joao (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part)

**Session Classification:** Trigger Parallel 1

Contribution ID: **100**

Type: **not specified**

## Status of the AMC13 card

*Tuesday, 8 November 2011 13:50 (20 minutes)*

**Presenter:** HAZEN, Eric Shearer (Boston University (US))

**Session Classification:** Trigger Parallel 1

Contribution ID: **101**

Type: **not specified**

## GT Upgrades

*Tuesday, 8 November 2011 16:05 (20 minutes)*

**Presenter:** Dr RAHBARAN, Babak (Austrian Academy of Sciences (AT))

**Session Classification:** Trigger Parallel 1

Contribution ID: **102**

Type: **not specified**

## Simulation Results - Calorimeter Triggers

*Tuesday, 8 November 2011 15:45 (20 minutes)*

**Presenter:** Prof. DASU, Sridhara (University of Wisconsin (US))

**Session Classification:** Trigger Parallel 1

Contribution ID: **103**

Type: **not specified**

## Trigger Online Software

*Tuesday, 8 November 2011 16:25 (20 minutes)*

**Presenter:** FRAZIER, Robert (University of Bristol (GB))

**Session Classification:** Trigger Parallel 1

Contribution ID: **104**

Type: **not specified**

## Firmware Framework

*Tuesday, 8 November 2011 16:45 (30 minutes)*

**Presenter:** Dr BROOKE, Jim (University of Bristol (GB))

**Session Classification:** Trigger Parallel 1

Contribution ID: **105**

Type: **not specified**

## HCAL TPG Status-Plans

*Wednesday, 9 November 2011 10:30 (20 minutes)*

**Presenter:** Prof. MANS, Jeremy (University of Minnesota (US))

**Session Classification:** Joint Trigger/HCAL/Muon Parallel

Contribution ID: **106**

Type: **not specified**

## HCAL TPG - Simulation Software

Contribution ID: **107**

Type: **not specified**

## CSCTF Status Report

*Wednesday, 9 November 2011 10:50 (45 minutes)*

**Presenter:** FURIC, Ivan Kresimir (University of Florida (US))

**Session Classification:** Joint Trigger/HCAL/Muon Parallel

Contribution ID: **108**

Type: **not specified**

## CSCTF - Muon Port Card Status

Contribution ID: **109**

Type: **not specified**

## DTTF Upgrades

*Wednesday, 9 November 2011 11:35 (20 minutes)*

**Presenter:** ERO, Janos (Austrian Academy of Sciences (AT))

**Session Classification:** Joint Trigger/HCAL/Muon Parallel

Contribution ID: **110**

Type: **not specified**

## Break

*Tuesday, 8 November 2011 09:55 (20 minutes)*

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **111**

Type: **not specified**

## Trigger Upgrades Schedule

*Wednesday, 9 November 2011 11:55 (20 minutes)*

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

**Session Classification:** Joint Trigger/HCAL/Muon Parallel

Contribution ID: 112

Type: **not specified**

## Test Beam Results with Proton Irradiated Crystal Matrices

*Tuesday, 8 November 2011 10:15 (20 minutes)*

**Presenter:** SINGOVSKI, Alexander (University of Minnesota (US))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: 113

Type: **not specified**

## **New Results of Proton and Neutron Irradiation of Heavy Crystalline Materials**

*Tuesday, 8 November 2011 11:35 (20 minutes)*

**Presenters:** SINGOVSKI, Alexander (University of Minnesota (US)); KORJIK, Mikhail (Byelorussian State University (BY)); RUSACK, Roger (University of Minnesota (US))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **114**

Type: **not specified**

## ECAL Mechanical Issues

*Tuesday, 8 November 2011 10:35 (20 minutes)*

**Presenter:** FUNK, Wolfgang (CERN)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **115**

Type: **not specified**

## **EM Pulse Structure**

*Tuesday, 8 November 2011 12:35 (20 minutes)*

**Presenter:** Dr BITYUKOV, Serguei (Institute for High Energy Physics (RU))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **116**

Type: **not specified**

## Update on LYSO Development

*Tuesday, 8 November 2011 11:55 (20 minutes)*

**Presenter:** Dr ZHU, Renyuan (California Institute of Technology (US))

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **117**

Type: **not specified**

## Update on Tile Calorimetry

*Tuesday, 8 November 2011 12:55 (20 minutes)*

**Presenter:** ONEL, Yasar (Physics and Astronomy Department)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **118**

Type: **not specified**

## **Setting the HO dynamic range for the SIPM upgrade**

*Monday, 7 November 2011 16:25 (15 minutes)*

**Presenter:** MILSTENE, Caroline

**Session Classification:** HCAL Parallel

Contribution ID: **119**

Type: **not specified**

## CMSSW Simulation

*Tuesday, 8 November 2011 16:20 (25 minutes)*

**Presenter:** Dr ANDERSON, Jake (Fermi National Accelerator Lab. (US))

**Session Classification:** HCAL Parallel - 2

Contribution ID: **120**

Type: **not specified**

## **Fast Muon trigger for SLHC Luminosities**

*Tuesday, 8 November 2011 16:10 (20 minutes)*

**Presenter:** ERDOGAN, Yusuf (Aachen)

**Session Classification:** Muon Parallel Session

Contribution ID: **121**

Type: **not specified**

## **Introduction and Re-cap of previous workshop**

*Wednesday, 9 November 2011 08:30 (20 minutes)*

**Presenter:** HANSEN, Magnus (CERN)

**Session Classification:** Grand Unified Trigger Calorimeters Schedule Meeting

Contribution ID: **122**Type: **not specified**

## Discussion

*Wednesday, 9 November 2011 08:50 (1h 20m)*

**Presenters:** TULLY, Chris (Princeton University (US)); WULZ, Claudia (Austrian Academy of Sciences (AT)); BADEN, Drew (University of Maryland (US)); HALL, Geoff (Imperial College Sci., Tech. & Med. (GB)); RASTEIRO DA SILVA, Jose Carlos (LIP Laboratorio de Instrumentacao e Fisica Experimental de Part); SMITH, Wesley (University of Wisconsin (US))

**Session Classification:** Grand Unified Trigger Calorimeters Schedule Meeting

Contribution ID: **123**

Type: **not specified**

## Conclusion

*Wednesday, 9 November 2011 10:10 (20 minutes)*

**Presenter:** HANSEN, Magnus (CERN)

**Session Classification:** Grand Unified Trigger Calorimeters Schedule Meeting

Contribution ID: **124**

Type: **not specified**

## Overall Plan

*Wednesday, 9 November 2011 09:00 (30 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermi National Accelerator Lab. (US))

**Session Classification:** 3D Tracker R&D

Contribution ID: **125**

Type: **not specified**

## VICTR Testing

*Wednesday, 9 November 2011 09:30 (20 minutes)*

**Presenter:** Dr YE, Zhenyu (Fermilab)

**Session Classification:** 3D Tracker R&D

Contribution ID: **126**

Type: **not specified**

## Interposer and Test Wafers

*Wednesday, 9 November 2011 09:50 (20 minutes)*

**Presenter:** THOM, Julia (Cornell University)

**Session Classification:** 3D Tracker R&D

Contribution ID: **127**

Type: **not specified**

## Bump Bonding

*Wednesday, 9 November 2011 10:10 (20 minutes)*

**Presenter:** Prof. TRIPATHI, Mani (UC Davis)

**Session Classification:** 3D Tracker R&D

Contribution ID: **128**

Type: **not specified**

## Layout and Modeling

*Wednesday, 9 November 2011 10:45 (15 minutes)*

**Presenter:** SPIEGEL, Leonard (FNAL)

**Session Classification:** 3D Tracker R&D

Contribution ID: **129**

Type: **not specified**

## Electronics Workplan

*Wednesday, 9 November 2011 11:00 (30 minutes)*

**Presenter:** JOHNSON, Marvin (Fermi National Accelerator Lab. (US))

**Session Classification:** 3D Tracker R&D

Contribution ID: **130**

Type: **not specified**

## Mechanical Workplan

*Wednesday, 9 November 2011 11:30 (30 minutes)*

**Presenter:** COOPER, William (Fermilab)

**Session Classification:** 3D Tracker R&D

Contribution ID: **131**

Type: **not specified**

## **FPIX mechanics**

*Tuesday, 8 November 2011 14:50 (20 minutes)*

**Presenter:** LEI, CM (FermiLab)

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: **132**

Type: **not specified**

## Phase 1B activities

*Tuesday, 8 November 2011 16:50 (20 minutes)*

**Presenter:** DEMARIA, Lino (Universita e INFN (IT))

**Session Classification:** Pixel Phase I - Parallel

Contribution ID: 133

Type: **not specified**

## Experience with HO HPK Operations and Testing

*Monday, 7 November 2011 16:40 (15 minutes)*

**Presenter:** DUGAD, Shashi (Tata Inst. of Fundamental Research (IN))

**Session Classification:** HCAL Parallel

Contribution ID: 134

Type: **not specified**

## Long Barrel configuration and rates

*Tuesday, 8 November 2011 08:30 (30 minutes)*

**Presenter:** SALVATI, Emmanuele (Cornell University (US))

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: 135

Type: **not specified**

## Barrel - EndCap configuration and rates

*Tuesday, 8 November 2011 09:00 (30 minutes)*

**Presenter:** BOUDOUL, Gaelle (Universite Claude Bernard-Lyon I (FR))

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: 136

Type: **not specified**

## **Long Barrel configuration tracklets and tracks for L1 trigger**

*Tuesday, 8 November 2011 09:30 (30 minutes)*

**Presenter:** POZZOBON, Nicola (Universita e INFN (IT))

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: **137**

Type: **not specified**

## **Barrel - EndCap configuration tracks for L1 trigger**

*Tuesday, 8 November 2011 10:00 (30 minutes)*

**Presenter:** PALLA, Fabrizio (Sezione di Pisa (IT))

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: 138

Type: **not specified**

## Challenges of Associative Memory Approach for Tracking Trigger at LHC

*Tuesday, 8 November 2011 10:45 (40 minutes)*

**Presenter:** TIEHUI, Ted Liu (FNAL)

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: **139**

Type: **not specified**

## **L1 muon trigger with track trigger**

*Tuesday, 8 November 2011 11:25 (30 minutes)*

**Presenter:** Prof. ZOTTO, Pierluigi (Padova University and INFN)

**Session Classification:** Tracking Trigger Task Force Meeting

Contribution ID: **140**

Type: **not specified**

## **3D sensors at CNM**

*Wednesday, 9 November 2011 10:35 (15 minutes)*

**Presenter:** FERNANDEZ GARCIA, Marcos (Universidad de Cantabria (ES))

**Session Classification:** Tracker Sensor R&D Parallel

Contribution ID: **141**

Type: **not specified**

## SiC APDs for Forward Calorimetry

*Tuesday, 8 November 2011 09:15 (20 minutes)*

**Presenter:** RUSS, James (Carnegie Mellon University)

**Session Classification:** Forward Calorimetry Task Force

Contribution ID: **142**

Type: **not specified**

## Technical coordination for Upgrade

*Wednesday, 9 November 2011 11:00 (20 minutes)*

**Presenter:** BALL, Austin (CERN)

**Session Classification:** Technical Coordination Parallel

Contribution ID: **143**

Type: **not specified**

## **Preliminary detailed planning for YETS 2011 and LS1**

*Wednesday, 9 November 2011 11:20 (20 minutes)*

**Presenter:** GASTAL, Martin (CERN)

**Session Classification:** Technical Coordination Parallel

Contribution ID: 144

Type: **not specified**

## Endcap muon region coordination issues

*Wednesday, 9 November 2011 11:40 (10 minutes)*

**Presenter:** LOVELESS, Dick (University of Wisconsin (US))

**Session Classification:** Technical Coordination Parallel

Contribution ID: 145

Type: **not specified**

## Tracking region coordination issues

*Wednesday, 9 November 2011 11:50 (10 minutes)*

**Presenter:** BACCHETTA, Nicola (Universita e INFN (IT))

**Session Classification:** Technical Coordination Parallel

Contribution ID: **146**

Type: **not specified**

## **Electrical and electronic systems projects**

*Wednesday, 9 November 2011 12:00 (10 minutes)*

**Presenter:** HANSEN, Magnus (CERN)

**Session Classification:** Technical Coordination Parallel

Contribution ID: **147**

Type: **not specified**

## **Magnet and services projects**

*Wednesday, 9 November 2011 12:10 (10 minutes)*

**Presenter:** TROPEA, Paola (CERN)

**Session Classification:** Technical Coordination Parallel

Contribution ID: **148**

Type: **not specified**

## BRM projects

*Wednesday, 9 November 2011 12:20 (10 minutes)*

**Presenter:** DABROWSKI, Anne (CERN)

**Session Classification:** Technical Coordination Parallel