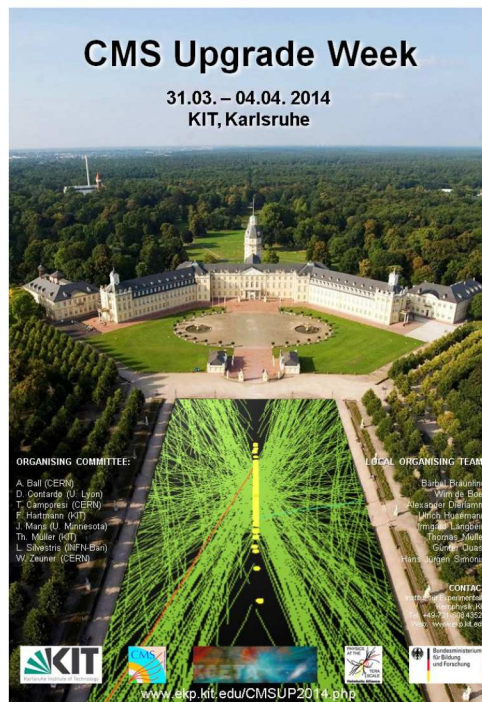


CMS Upgrade Week at Karlsruhe

from Monday, 31 March 2014 at **08:00** to Friday, 4 April 2014 at **18:00** (Europe/Zurich)
at **Karlsruhe Institute of Technology, Campus South**
Kaiserstraße 12 D-76131 Karlsruhe GERMANY

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Description



Material: [Campus Map](#)

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Support **Email:** cms-upgrade-week@lists.kit.edu

[Go to day](#)

Monday, 31 March 2014

- 08:30 - 09:30 Registration
Location: KIT, CS (Tulla Aula, Building 11.40)
- 09:30 - 14:00 Introduction plenary
Location: KIT, CS (Tulla HS, Building 11.40)
- 09:30 **Welcome 15'**
- 09:45 **Physics prospect at HL-LHC 45'**
- 10:30 **Coffee break 20'**
- 10:50 **Pixel Phase 1 Upgrade 20'**
Speaker: Prof. Karl Ecklund (Rice University (US))
- 11:15 **HCAL phase 1 upgrade 20'**
Speaker: Ulrich Heintz (Brown University (US))
- 11:40 **L1-trigger Phase 1 upgrade 20'**
- 12:05 **CMS perspective 30'**
- 12:40 **Goals for the week 10'**
- 13:00 **Lunch 1h0'**
- 14:00 - 18:35 Phase 2 Upgrade plenary: TP content per chapter
Location: KIT, CS (Tulla HS, Building 11.40)
- 14:00 **Infrastructure upgrades and logistic of work in USC 45'**
Including cost estimates and presentation of forward detector configuration options
- 14:50 **BRIL upgrades and radiation studies 30'**
Include studies of radiation doses for forward detector configuration options
- 15:25 **Electronics common system upgrades 30'**
Status of studies on component longevity - need for upgrades in LS3 and beyond
- 16:00 **Coffee break 20'**

- 16:20 **New Tracker 1h0'**
TP content: motivation for upgrades - conceptual design - R&D - cost estimates - plans to complete TP
- 17:25 **Muon upgrades 30'**
TP content; motivation for upgrades - current system upgrades - R&D - cost estimates - plans to complete TP
- 18:00 **Muon upgrades 30'**
TP content; motivation for upgrades - current system upgrades - R&D - cost estimates - plans to complete TP
- 18:35 - 20:00 Poster and Reception
 Location: KIT, CS (Tulla Aula, Building 11.40)

Tuesday, 1 April 2014

- 09:00 - 13:00 Tracker Phase 2
 Convener: Duccio Abbaneo (CERN)
 Location: KIT, CS (HS37, Building 20.40)
- 09:00 - 13:00 Trigger Phase 2
 Conveners: Oliver Buchmueller (Imperial College Sci., Tech. & Med. (GB)), Wesley Smith (University of Wisconsin (US))
 Location: KIT, CS (Jordan HS, Building 20.40)
- 09:00 - 13:00 Endcap Calorimetry Phase 2
 Convener: Philippe Bloch (CERN)
 Location: KIT, CS (Eiermann HS, Building 20.40)
- 09:00 - 13:00 Offline working meeting
 Conveners: Jake Anderson (Fermi National Accelerator Lab. (US)), Mark Andrew Grimes (University of Bristol (GB))
 Location: KIT, CS (Neuer HS, Building 20.40)
- 13:00 - 14:00 Lunch
- 14:00 - 18:00 Tracker Phase 2
 Convener: Duccio Abbaneo (CERN)
 Location: KIT, CS (HS37, Building 20.40)
- 14:00 - 18:00 Trigger Phase 2
 Conveners: Oliver Buchmueller (Imperial College Sci., Tech. & Med. (GB)), Wesley Smith (University of Wisconsin (US))
 Location: KIT, CS (Jordan HS, Building 20.40)
- 14:00 - 18:00 Endcap Calorimetry Phase 2
 Convener: Philippe Bloch (CERN)
 Location: KIT, CS (Eiermann HS, Building 20.40)
- 14:00 - 18:00 TP studies working meeting
 Conveners: Markus Klute (Massachusetts Inst. of Technology (US)), Lucia Silvestris (Universita e INFN (IT))
 Location: KIT, CS (Neuer HS, Building 20.40)
- 14:00 - 18:00 Muons Phase 2
 Location: KIT, CS (HS9, Building 20.40)

Wednesday, 2 April 2014

- 08:30 - 10:00 ECAL working meeting
 Conveners: Francesca Cavallari (Universita e INFN, Roma I (IT)), Prof. Colin Jessop (Notre Dame)
 Location: KIT, CS (Eiermann HS, Building 20.40)
- 08:30 - 10:00 HCAL working meeting
 Convener: Pawel De Barbaro (University of Rochester (US))
 Location: KIT, CS (HS9, Building 20.40)
- 08:30 - 10:00 BRIL working meeting
 Conveners: Anne Dabrowski (CERN), David Peter Stickland (Princeton University (US))
 Location: KIT, CS (Neuer HS, Building 20.40)
- 10:00 - 10:20 Coffee break (KIT, CS (Tulla Aula, Building 11.40))
- 10:20 - 13:00 Phase 2 Upgrade plenary : TP content per chapter
 Location: KIT, CS (Tulla HS, Building 11.40)
- 10:20 **L1-Trigger and HLT upgrades 45'**
TP content: motivation - conceptual architectures and cost - track-trigger and menu studies - HLT algorithms and CPU requirements
- 11:15 **DAQ, Offline and computing 30'**
TP content: TTC system - computing for DAQ/HLT - cost - software development for reconstruction
- 11:50 **ECAL upgrades 30'**
TP content: motivation for upgrades - barrel upgrade - R&D - cost estimates - plans to complete TP

12:25	HCAL upgrades 30' <i>TP content: motivation for upgrades ; conceptual design for scintillator-based HE upgrade - R&D - cost estimates - plans to complete TP</i>
13:00 - 14:00	Lunch
14:00 - 17:00	Phase 2 Upgrade plenary: Endcap Calorimetry <i>Endcap Calorimetry</i> Location: KIT, CS (Tulla HS, Building 11.40)
14:00	EE shashlik 40' <i>Conceptual design - R&D status and plans - performance studies</i>
14:45	Combined Forward CALorimeter 45' <i>Conceptual design - R&D status and plans - performance studies</i>
15:30	Coffee break 20'
15:50	High Granularity CALorimeter 40' <i>Conceptual design - R&D status and plans - performance studies</i>
16:30	Precise timing studies 20'
17:00 - 22:00	Excursion and Dinner

Thursday, 3 April 2014

09:00 - 13:00	TP studies working meeting Conveners: Markus Klute (Massachusetts Inst. of Technology (US)), Lucia Silvestris (Universita e INFN (IT)) Location: KIT, CS (HS37, Building 20.40)
09:00 - 13:00	Technical Coordination working meeting Conveners: Austin Ball (CERN), Wolfram Zeuner (CERN) Location: KIT, CS (Eiermann HS, Building 20.40)
13:00 - 14:00	Lunch
14:00 - 18:00	Electronics and Online working meeting Conveners: Magnus Hansen (CERN), Christoph Schwick (CERN) Location: KIT, CS (Eiermann HS, Building 20.40)
14:00 - 18:00	TP studies working meeting Conveners: Markus Klute (Massachusetts Inst. of Technology (US)), Lucia Silvestris (Universita e INFN (IT)) Location: KIT, CS (HS37, Building 20.40)
14:00 - 18:00	EE Shashlik working meeting Conveners: Brad Cox (University of Virginia), Randy Ruchti (University of Notre Dame (US)) Location: KIT, CS (Jordan HS, Building 20.40)
14:00 - 18:00	L1-Trigger Phase 1 upgrade working meeting Conveners: Darin Acosta (University of Florida), Prof. Costas Fountas (University of Ioannina (GR)) Location: KIT, CS (HS9, Building 20.40)
18:00 - 20:00	Management Board Convener: Quentin Ingram (Paul Scherrer Institut (CH)) Location: KIT, CS (Neuer HS, Building 20.40)

Friday, 4 April 2014

09:00 - 13:00	Phase 2 Upgrade plenary: Performance studies and wrap-up of the week Location: KIT, CS (Tulla HS, Building 11.40)
09:00	Track reconstruction and b-tagging 20' <i>TP content</i>
09:25	e/gamma reconstruction 20' <i>TP content</i>
09:50	Jet/MET reconstruction 20' <i>TP content</i>
10:15	Coffee break 20'
10:35	Muon reconstruction 20' <i>TP content</i>
11:00	Simulation and MC production plans 20' <i>TP content</i>
11:25	Physics motivations and performance reach 45' <i>TP content</i>
12:15	Proposal for Endcap Calorimetry in TP 20'
12:40	Wrap-up of the week and next steps 20'
13:30 - 15:30	Collaboration Board

Conveners: Claudia Wulz (Austrian Academy of Sciences (AT)), Prof. Jorgen D'Hondt (Vrije Universiteit Brussel (VUB), Belgium), Claire Shepherd-Themistocleous (STFC - Rutherford Appleton Lab. (GB))

Location: KIT, CS (Eiermann HS, Building 20.40)