

# Future Circular Collider Study Kickoff Meeting



UNIVERSITÉ  
DE GENÈVE



## Report of Contributions

Contribution ID: 0

Type: **not specified**

## Registration opens

*Wednesday 12 February 2014 12:00 (1h 30m)*

Contribution ID: 1

Type: **not specified**

## Welcome address

Contribution ID: 2

Type: **not specified**

## DG introduction and session

Contribution ID: 3

Type: **not specified**

**Session**

Contribution ID: 4

Type: **not specified**

## Welcome drink

Contribution ID: 5

Type: **not specified**

## **Public Lecture: Le boson de Higgs et le seigneur des anneaux**

*Wednesday 12 February 2014 19:00 (2 hours)*

Une conférence publique de Michel Spiro, Professeur au Commissariat de l'Energie Atomique de Saclay (France)

**Presenter:** SPIRO, Michel (CEA/IRFU,Centre d'étude de Saclay Gif-sur-Yvette (FR))

Contribution ID: 6

Type: **not specified**

## Begin VLHC session

Contribution ID: 7

Type: **not specified**

## End of plenary

Contribution ID: 8

Type: **not specified**

## TLEP session

Contribution ID: 9

Type: **not specified**

## End of session

Contribution ID: **10**

Type: **not specified**

## **Begin infrastructure session**

Contribution ID: **11**

Type: **not specified**

## End of plenary

Contribution ID: **12**

Type: **not specified**

## Breakout sessions

Contribution ID: **13**

Type: **not specified**

## End of breakout session

Contribution ID: 14

Type: **not specified**

## Breakout sessions summaries

Contribution ID: 15

Type: **not specified**

## **Breakout sessions summaries; wrap-up; next steps**

Contribution ID: **16**

Type: **not specified**

## End of meeting

*Saturday 15 February 2014 13:00 (30 minutes)*

Contribution ID: 17

Type: **not specified**

## Welcome

*Wednesday 12 February 2014 13:30 (10 minutes)*

**Presenters:** BLONDEL, Alain (Universite de Geneve (CH)); VASSALLI, Jean-Dominique (Rector of University of Geneva)

**Session Classification:** Session 1a - Opening (Chaired by Giuseppe IACOBUCCI/Alain BLONDEL - University of Geneva)

Contribution ID: **18**

Type: **not specified**

## Opening & Introduction

*Wednesday 12 February 2014 13:40 (20 minutes)*

**Presenter:** HEUER, Rolf (CERN Director-General)

**Session Classification:** Session 1a - Opening (Chaired by Giuseppe IACOBUCCI/Alain BLONDEL - University of Geneva)

**Track Classification:** Session 1 - Opening

Contribution ID: **19**

Type: **not specified**

## Energy frontier after the Higgs discovery

*Wednesday 12 February 2014 14:00 (30 minutes)*

**Presenter:** ARKANI-HAMED, Nima (IAS)

**Session Classification:** Session 1a - Opening (Chaired by Giuseppe IACOBUCCI/Alain BLONDEL - University of Geneva)

**Track Classification:** Session 1 - Opening

Contribution ID: 20

Type: **not specified**

## Precision frontier at high energies

*Wednesday 12 February 2014 14:30 (30 minutes)*

**Presenter:** GROJEAN, Christophe (ICREA - Institutio catalana de recerca estudis avancats (ES))

**Session Classification:** Session 1a - Opening (Chaired by Giuseppe IACOBUCCI/Alain BLONDEL - University of Geneva)

**Track Classification:** Session 1 - Opening

Contribution ID: **21**

Type: **not specified**

## CERN roadmap

*Wednesday 12 February 2014 15:30 (20 minutes)*

**Presenter:** BORDRY, Frédéric (CERN)

**Session Classification:** Session 1b - Opening (Chaired by Alex MUELLER - CNRS/IN2P3)

**Track Classification:** Session 1 - Opening

Contribution ID: 22

Type: **not specified**

## FCC study

*Wednesday 12 February 2014 15:50 (30 minutes)*

**Presenter:** BENEDIKT, Michael (CERN)

**Session Classification:** Session 1b - Opening (Chaired by Alex MUELLER - CNRS/IN2P3)

**Track Classification:** Session 1 - Opening

Contribution ID: 23

Type: **not specified**

## Gotthard tunnel project

*Friday 14 February 2014 10:00 (30 minutes)*

**Presenter:** AMBERG, Felix

**Session Classification:** Session 4a - Infrastructure & operation - (Chaired by Thomas ROSER - BNL)

**Track Classification:** Session 1 - Opening

Contribution ID: **24**

Type: **not specified**

## Hadron collider overview

*Thursday 13 February 2014 08:30 (30 minutes)*

**Presenter:** SCHULTE, Daniel (CERN)

**Session Classification:** Session 2a - Hadron machine (Chaired by Akira Yamamoto - KEK)

Contribution ID: 25

Type: **not specified**

## Synchrotron radiation & vacuum concepts

*Thursday 13 February 2014 09:00 (30 minutes)*

**Presenter:** KERSEVAN, Roberto (CERN)

**Session Classification:** Session 2a - Hadron machine (Chaired by Akira Yamamoto - KEK)

Contribution ID: 26

Type: **not specified**

## Hadron injector options

*Thursday 13 February 2014 09:30 (30 minutes)*

**Presenter:** HERR, Werner (CERN)

**Session Classification:** Session 2a - Hadron machine (Chaired by Akira Yamamoto - KEK)

Contribution ID: 27

Type: **not specified**

## **R&D roadmap towards 16 T Nb<sub>3</sub>Sn dipole magnets ready for industrial production**

*Thursday 13 February 2014 10:00 (30 minutes)*

**Presenter:** STRAUSS, Bruce (U.S. Department of Energy)

**Session Classification:** Session 2a - Hadron machine (Chaired by Akira Yamamoto - KEK)

Contribution ID: **28**

Type: **not specified**

## **Hadron collider experiments and physics: introduction**

*Thursday 13 February 2014 11:00 (20 minutes)*

**Presenter:** GIANOTTI, Fabiola (CERN)

**Session Classification:** Session 2b - Hadron physics (Chaired by Tejinder VIRDEE - Imperial College)

Contribution ID: 29

Type: **not specified**

## Experimental challenges and first ideas about detector layouts

*Thursday 13 February 2014 11:25 (20 minutes)*

**Presenter:** FOURNIER, Daniel (Universite de Paris-Sud 11 (FR))

**Session Classification:** Session 2b - Hadron physics (Chaired by Tejinder VIRDEE - Imperial College)

Contribution ID: **30**

Type: **not specified**

# The physics landscape and opportunities

*Thursday 13 February 2014 11:50 (20 minutes)*

**Presenter:** MANGANO, Michelangelo (CERN)

**Session Classification:** Session 2b - Hadron physics (Chaired by Tejinder VIRDEE - Imperial College)

Contribution ID: **31**

Type: **not specified**

## Lepton collider overview

*Thursday 13 February 2014 14:00 (30 minutes)*

**Presenter:** WENNINGER, Jorg (CERN)

**Session Classification:** Session 3a - Lepton machine (Chaired by Eugene LEVICHEV - BINP)

Contribution ID: **32**

Type: **not specified**

## Optics challenges

*Thursday 13 February 2014 14:30 (20 minutes)*

**Presenter:** HOLZER, Bernhard (CERN)

**Session Classification:** Session 3a - Lepton machine (Chaired by Eugene LEVICHEV - BINP)

Contribution ID: 33

Type: **not specified**

## Lepton injector options

*Thursday 13 February 2014 15:10 (20 minutes)*

**Presenter:** PAPAPHILIPPOU, Yannis (CERN)

**Session Classification:** Session 3a - Lepton machine (Chaired by Eugene LEVICHEV - BINP)

Contribution ID: **34**

Type: **not specified**

## **100-MW RF system at different beam energies and intensities**

*Thursday 13 February 2014 15:30 (30 minutes)*

**Presenter:** JENSEN, Erk (CERN)

**Session Classification:** Session 3a - Lepton machine (Chaired by Eugene LEVICHEV - BINP)

Contribution ID: 35

Type: **not specified**

## Lepton physics

*Thursday 13 February 2014 16:30 (30 minutes)*

**Presenter:** ELLIS, Jonathan R. (King's College London, UK)

**Session Classification:** Session 3b - Lepton physics (Chaired by Michel SPIRO - CEA)

Contribution ID: 36

Type: **not specified**

## Lepton experiments & detectors

*Thursday 13 February 2014 17:00 (30 minutes)*

**Presenter:** ROLANDI, Gigi (CERN)

**Session Classification:** Session 3b - Lepton physics (Chaired by Michel SPIRO - CEA)

Contribution ID: 37

Type: **not specified**

## Lepton-Hadron Physics, Experiments, Detectors

*Thursday 13 February 2014 17:30 (30 minutes)*

**Presenter:** D'ONOFRIO, Monica (University of Liverpool (GB))

**Session Classification:** Session 3b - Lepton physics (Chaired by Michel SPIRO - CEA)

Contribution ID: **38**

Type: **not specified**

## Unconventional issues in conventional facilities

*Friday 14 February 2014 08:30 (30 minutes)*

**Presenter:** LEBRUN, Philippe (CERN)

**Session Classification:** Session 4a - Infrastructure & operation - (Chaired by Thomas ROSER - BNL)

Contribution ID: 39

Type: **not specified**

## Geology and civil engineering

*Friday 14 February 2014 10:30 (30 minutes)*

**Presenter:** OSBORNE, John Andrew (CERN)

**Session Classification:** Session 4a - Infrastructure & operation - (Chaired by Thomas ROSER - BNL)

Contribution ID: **40**

Type: **not specified**

## Cryogenics

*Friday 14 February 2014 09:00 (30 minutes)*

**Presenter:** TAVIAN, Laurent Jean (CERN)

**Session Classification:** Session 4a - Infrastructure & operation - (Chaired by Thomas ROSER - BNL)

Contribution ID: 41

Type: **not specified**

## Health, safety and environment

**Presenter:** TBC

Contribution ID: 42

Type: **not specified**

## Availability, energy, operation

*Friday 14 February 2014 09:30 (30 minutes)*

**Presenter:** COLLIER, Paul (CERN)

**Session Classification:** Session 4a - Infrastructure & operation - (Chaired by Thomas ROSER - BNL)

Contribution ID: 43

Type: **not specified**

## Health, safety and environment

*Friday 14 February 2014 11:30 (30 minutes)*

**Presenter:** TRANT, Ralf (CERN)

**Session Classification:** Session 4b - Closing (Chaired by Tord EKELOF - Uppsala University)

Contribution ID: 44

Type: **not specified**

## **Cultural, economical and societal impact of big science projects**

*Wednesday 12 February 2014 17:00 (45 minutes)*

**Presenter:** WOMERSLEY, John William (STFC - Rutherford Appleton Lab. (GB))

**Session Classification:** Session 1b - Opening (Chaired by Alex MUELLER - CNRS/IN2P3)

Contribution ID: 45

Type: **not specified**

## Closing remarks & outlook

*Friday 14 February 2014 12:00 (15 minutes)*

**Presenter:** HEUER, Rolf (CERN)

**Session Classification:** Session 4b - Closing (Chaired by Tord EKELOF - Uppsala University)

Contribution ID: 46

Type: **not specified**

## Wrap-up and next steps

*Saturday 15 February 2014 12:30 (30 minutes)*

**Presenters:** ZIMMERMANN, Frank (CERN); BENEDIKT, Michael (CERN)

Contribution ID: 47

Type: **not specified**

## Introduction

*Friday 14 February 2014 14:00 (15 minutes)*

**Presenter:** WENNINGER, Jorg (CERN)

**Session Classification:** Lepton collider design (SC RF technology + injectors)

Contribution ID: 48

Type: **not specified**

## Optics challenges

**Presenters:** HOLZER, Bernhard (CERN); Dr TOMAS GARCIA, Rogelio (CERN)

Contribution ID: 49

Type: **not specified**

## Optics with large momentum acceptance for Higgs factory

*Friday 14 February 2014 14:15 (25 minutes)*

**Presenter:** CAI, Yunhai (SLAC)

**Session Classification:** Lepton collider design (SC RF technology + injectors)

Contribution ID: **50**

Type: **not specified**

## Introduction

*Friday 14 February 2014 14:00 (15 minutes)*

**Presenter:** JANOT, Patrick (CERN)

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 51

Type: **not specified**

## **Plans for Working Groups 1 & 2: EW physics at the Z pole, and di-boson physics**

*Friday 14 February 2014 14:20 (15 minutes)*

**Presenters:** BLONDEL, Alain (Universite de Geneve (CH)); TENCHINI, Roberto (Sezione di Pisa (IT))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 52

Type: **not specified**

## Plans for Working Group 4: Top quark physics

*Friday 14 February 2014 14:40 (15 minutes)*

**Presenter:** AZZI, Patrizia (INFN Padova (IT))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 53

Type: **not specified**

## **Plans for Working Group 5: QCD and gamma gamma physics**

*Friday 14 February 2014 15:00 (15 minutes)*

**Presenters:** D'ENTERRIA, David (CERN); SKANDS, Peter (CERN)

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 54

Type: **not specified**

## Plans for Working Group 6: Flavour Physics

*Friday 14 February 2014 15:20 (15 minutes)*

**Presenter:** MONTEIL, Stephane (Univ. Blaise Pascal Clermont-Fe. II (FR))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 55

Type: **not specified**

## Plans for Working Group 8: Experimental Environment

*Friday 14 February 2014 16:15 (15 minutes)*

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

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 56

Type: **not specified**

## **Plans for Working Group 10: Online software and computing**

*Friday 14 February 2014 16:35 (15 minutes)*

**Presenter:** LEONIDOPOULOS, Christos (University of Edinburgh (GB))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 57

Type: **not specified**

## Plans for Working Group 11: Detector Designs

*Friday 14 February 2014 16:55 (15 minutes)*

**Presenter:** ROLANDI, Gigi (CERN)

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 58

Type: **not specified**

## Possible synergies with CLIC detectors

*Friday 14 February 2014 17:15 (20 minutes)*

**Presenter:** LINSSEN, Lucie (CERN)

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: 59

Type: **not specified**

## A TPC for ee-FCC (TLEP) ? A follow-up.

*Friday 14 February 2014 17:40 (20 minutes)*

**Presenter:** SCHWEMLING, Philippe (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: **60**

Type: **not specified**

## Potential activities in TEMF, TU-Darmstadt

*Friday 14 February 2014 14:15 (10 minutes)*

**Presenter:** PETROV, Fedor (TU-Darmstadt)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **61**

Type: **not specified**

# Technical Challenges and Breakthroughs for the FCC-hh

*Friday 14 February 2014 14:45 (20 minutes)*

**Presenter:** Dr JIMENEZ, Jose Miguel (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **62**

Type: **not specified**

## Potential contributions of the John Adams Institute

*Friday 14 February 2014 14:25 (10 minutes)*

**Presenter:** SERYI, Andrei (John Adams Institute for Accelerator Science)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 63

Type: **not specified**

## **First look at performance for Pb-Pb and p-Pb collisions and required R&D**

*Friday 14 February 2014 15:05 (10 minutes)*

**Presenter:** SCHAUMANN, Michaela (Rheinisch-Westfaelische Tech. Hoch. (DE))

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **64**

Type: **not specified**

## Introduction

*Friday 14 February 2014 14:00 (15 minutes)*

**Presenter:** SCHULTE, Daniel (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 65

Type: **not specified**

## Chinese activities for circular colldiers

*Wednesday 12 February 2014 16:20 (20 minutes)*

**Presenter:** WANG, Yifang (IHEP Beijing)

**Session Classification:** Session 1b - Opening (Chaired by Alex MUELLER - CNRS/IN2P3)

Contribution ID: **66**

Type: **not specified**

## **US activities related to circular colliders studies**

*Wednesday 12 February 2014 16:40 (20 minutes)*

**Presenter:** HENDERSON, Stuart (Fermi National Accelerator Laboratory)

**Session Classification:** Session 1b - Opening (Chaired by Alex MUELLER - CNRS/IN2P3)

Contribution ID: **67**

Type: **not specified**

## Open discussion

*Thursday 13 February 2014 12:15 (15 minutes)*

**Session Classification:** Session 2b - Hadron physics (Chaired by Tejinder VIRDEE - Imperial College)

Contribution ID: **68**

Type: **not specified**

## **Final focus + injector concepts based on SuperKEKB**

*Thursday 13 February 2014 14:50 (20 minutes)*

**Presenter:** OIDE, Katsunobu (KEK)

**Session Classification:** Session 3a - Lepton machine (Chaired by Eugene LEVICHEV - BINP)

Contribution ID: **69**

Type: **not specified**

## **Impact of synchrotron radiation in arcs**

*Friday 14 February 2014 15:20 (15 minutes)*

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

**Session Classification:** Lepton collider design (SC RF technology + injectors)

Contribution ID: 70

Type: **not specified**

## Optimization of Luminosity of a 100 km Circumference $e^+/e^-$ Collider

*Friday 14 February 2014 15:00 (20 minutes)*

**Presenter:** TALMAN, Richard (Cornell)

**Session Classification:** Lepton collider design (SC RF technology + injectors)

Contribution ID: 71

Type: **not specified**

## **LTS and HTS material issues for 16 to 20 T applications**

*Friday 14 February 2014 16:05 (20 minutes)*

**Presenter:** LARBALESTIER, David (National High Magnetic Field Laboratory)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 72

Type: **not specified**

## Overview of HiLumi LHC Low-beta quadrupoles and FRESKA2

*Friday 14 February 2014 16:35 (10 minutes)*

**Presenter:** FERRACIN, Paolo (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 73

Type: **not specified**

## 11T experience

*Friday 14 February 2014 16:45 (10 minutes)*

**Presenter:** KARPPINEN, Mikko (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 74

Type: **not specified**

## SC magnet developments towards 16 T Nb<sub>3</sub>Sn dipoles

*Friday 14 February 2014 16:55 (10 minutes)*

**Presenter:** GOURLAY, Stephen (LBNL)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 75

Type: **not specified**

## Design options for the 15-20 T range

*Friday 14 February 2014 17:05 (10 minutes)*

**Presenter:** TODESCO, Ezio (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 76

Type: **not specified**

## Low cost magnet design

*Friday 14 February 2014 17:15 (10 minutes)*

**Presenter:** MCINTYRE, Peter (Texas A&M University)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 77

Type: **not specified**

## **Report by Jonathan R. Ellis and Michelangelo Mangano**

*Saturday 15 February 2014 09:00 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: 78

Type: **not specified**

## Report by Daniel Schulte

*Saturday 15 February 2014 11:20 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: 79

Type: **not specified**

## **Report by Fabiola Gianotti and Austin Ball**

*Saturday 15 February 2014 09:20 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: **80**

Type: **not specified**

## Report by Jorg Wenninger

*Saturday 15 February 2014 10:20 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: **81**

Type: **not specified**

## **Report by Patrick Janot and Alain Blondel**

*Saturday 15 February 2014 09:40 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: **82**

Type: **not specified**

## Report by Max Klein

*Saturday 15 February 2014 10:00 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: **83**

Type: **not specified**

## Report by Paul Collier

*Saturday 15 February 2014 11:40 (20 minutes)*

**Session Classification:** Reports by conveners (Chaired by Leonid RIVKIN - EPFL & PSI)

Contribution ID: **84**

Type: **not specified**

## Injector magnet considerations

*Friday 14 February 2014 17:25 (10 minutes)*

**Presenter:** MILANESE, Attilio (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: 85

Type: **not specified**

## **Material R&D towards superconductors for the 16 T horizon, and 20 T horizon**

*Friday 14 February 2014 16:25 (10 minutes)*

**Presenter:** BALLARINO, Amalia (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **86**

Type: **not specified**

## Introduction

*Friday 14 February 2014 14:00 (15 minutes)*

**Presenters:** Dr BALL, Austin (CERN); Dr GIANOTTI, Fabiola (CERN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: 87

Type: **not specified**

## **Magnet concepts for experiments at a 100-TeV pp collider**

*Friday 14 February 2014 14:15 (20 minutes)*

**Presenter:** TEN KATE, Herman

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: **88**

Type: **not specified**

## Operation at shorter than 25-ns bunch spacing

*Friday 14 February 2014 14:55 (15 minutes)*

**Presenter:** GORINI, Benedetto (CERN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: **89**

Type: **not specified**

## **Radiation issues and tracking concepts**

*Friday 14 February 2014 15:10 (20 minutes)*

**Presenter:** Dr RIEGLER, Werner (CERN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: **90**

Type: **not specified**

## **Machine detector interface issues**

*Friday 14 February 2014 14:35 (20 minutes)*

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

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: **91**

Type: **not specified**

## Dark matter studies

*Friday 14 February 2014 16:40 (20 minutes)*

**Presenters:** Dr HOOBERMAN, Benjamin (FNAL); Dr COTÉ, David (Arlington UT)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: 92

Type: **not specified**

## $V \rightarrow jj$ studies with jet substructures

*Friday 14 February 2014 16:20 (20 minutes)*

**Presenter:** Dr PIERINI, Maurizio (CERN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: 93

Type: **not specified**

## Parton distribution functions for 100 TeV pp colliders

*Friday 14 February 2014 16:00 (20 minutes)*

**Presenter:** ROJO, Juan (INFN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: 94

Type: **not specified**

## Organisation and discussion of the future activities

*Friday 14 February 2014 17:00 (20 minutes)*

**Presenters:** ALL; BALL, Austin (CERN); Dr GIANOTTI, Fabiola (CERN)

**Session Classification:** Hadron collider physics, experiments, detectors

Contribution ID: 95

Type: **not specified**

## Introduction

*Friday 14 February 2014 14:00 (10 minutes)*

**Presenter:** KLEIN, Max (University of Liverpool (GB))

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **96**

Type: **not specified**

## **LHeC development**

*Friday 14 February 2014 14:10 (20 minutes)*

**Presenter:** BRUNING, Oliver (CERN)

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: 97

Type: **not specified**

## ERL Test Facility

*Friday 14 February 2014 14:30 (20 minutes)*

**Presenter:** VALLONI, Alessandra (CERN)

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **98**

Type: **not specified**

## Machine parameters

*Friday 14 February 2014 16:00 (20 minutes)*

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

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **99**

Type: **not specified**

## Interaction region

*Friday 14 February 2014 14:50 (20 minutes)*

**Presenter:** TOMAS GARCIA, Rogelio (CERN)

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **100**

Type: **not specified**

## Detector considerations

*Friday 14 February 2014 15:10 (20 minutes)*

**Presenter:** POLINI, Alessandro (Istituto Nazionale di Fisica Nucleare (INFN))

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **101**

Type: **not specified**

## Precision DIS measurements

*Friday 14 February 2014 16:20 (20 minutes)*

**Presenter:** KLEIN, Max (University of Liverpool (GB))

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **102**

Type: **not specified**

## **BSM in ep and relation to pp**

**Presenter:** D'ONOFRIO, Monica (University of Liverpool (GB))

Contribution ID: **103**

Type: **not specified**

## Higgs theory

**Presenter:** TROTT, Michael

Contribution ID: **104**

Type: **not specified**

## Higgs in ep

**Presenter:** KLEIN, Uta (University of Liverpool (GB))

Contribution ID: **105**

Type: **not specified**

## Heavy ion physics with eA

*Friday 14 February 2014 16:40 (20 minutes)*

**Presenter:** COLE, Brian (Columbia University (US))

**Session Classification:** Lepton-hadron physics, experiments, detectors

Contribution ID: **106**

Type: **not specified**

## **Status and plans for the physics studies of TLEP**

*Friday 14 February 2014 16:00 (30 minutes)*

**Presenter:** ELLIS, Jonathan R. (CERN)

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **107**

Type: **not specified**

## **FCC-hh: topics and work plan for phenomenology studies**

*Friday 14 February 2014 16:30 (30 minutes)*

**Presenter:** MANGANO, Michelangelo (CERN)

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **108**

Type: **not specified**

## Perspectives at the Energy Frontier

*Friday 14 February 2014 14:00 (30 minutes)*

**Presenter:** QUIGG, Chris (Fermi National Accelerator Lab. (US))

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **109**

Type: **not specified**

## **Status and plans for the Heavy Ion physics studies**

*Friday 14 February 2014 14:30 (30 minutes)*

**Presenter:** DAINESE, Andrea (INFN - Padova (IT))

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **110**

Type: **not specified**

## **QCD at the FCC: opportunities and challenges**

*Friday 14 February 2014 15:00 (30 minutes)*

**Presenter:** ZANDERIGHI, Giulia (Unknown)

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **111**

Type: **not specified**

## **Status and prospects of precise Higgs and BSM calculations for the FCC**

*Friday 14 February 2014 17:00 (30 minutes)*

**Presenter:** SPIRA, Michael (Paul Scherrer Institut (CH))

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: 112

Type: **not specified**

## Prospects for Higgs and BSM studies in ep collisions at the FCC

*Friday 14 February 2014 17:30 (30 minutes)*

**Presenter:** KLEIN, Uta (University of Liverpool (GB))

**Session Classification:** FCCs overall physics and phenomenology

Contribution ID: **113**

Type: **not specified**

## Insertion Magnet Challenges

*Friday 14 February 2014 17:35 (10 minutes)*

**Presenter:** Dr TOMAS GARCIA, Rogelio (CERN)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **114**

Type: **not specified**

## **Draft of the Interaction Region for Crab Waist collision scheme**

*Friday 14 February 2014 14:40 (20 minutes)*

**Presenter:** BOGOMYAGKOV, Anton

**Session Classification:** Lepton collider design (SC RF technology + injectors)

Contribution ID: **115**

Type: **not specified**

## Potential UK Contributions

*Friday 14 February 2014 14:35 (10 minutes)*

**Presenter:** CHATTOPADHYAY, Swapan (Cockcroft Institute, UK)

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **116**

Type: **not specified**

## Round the table

*Friday 14 February 2014 15:15 (20 minutes)*

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **117**

Type: **not specified**

## MC codes for FCC-ee

*Friday 14 February 2014 18:05 (15 minutes)*

**Presenter:** JADACH, Staszek (Polish Academy of Sciences (PL))

**Session Classification:** Lepton collider physics, experiments, detectors

Contribution ID: **118**

Type: **not specified**

## Round the table for magnets

*Friday 14 February 2014 17:45 (15 minutes)*

**Session Classification:** Hadron collider design (+ SC magnet technology + injectors)

Contribution ID: **119**

Type: **not specified**

## CEPC accelerator

*Friday 14 February 2014 15:35 (20 minutes)*

**Presenter:** GAO, Jie (IHEP)

**Session Classification:** Lepton collider design (SC RF technology + injectors)