

**LFC15: physics prospects for  
Linear and other Future  
Colliders after the discovery of  
the Higgs**

**Report of Contributions**

Contribution ID: 0

Type: **not specified**

# Approaching a new energy frontier at the LHC

*Monday, 7 September 2015 14:30 (30 minutes)*

**Presenter:** MELE, Barbara (ROMA1)

Contribution ID: 1

Type: **not specified**

# **Perspectives for muon colliders and neutrino factories**

*Monday, 7 September 2015 15:00 (30 minutes)*

**Presenter:** BONESINI, Maurizio Giorgio (MIB)

Contribution ID: 2

Type: **not specified**

## Physics program of FCC-ee

*Monday, 7 September 2015 16:30 (30 minutes)*

**Presenter:** D'ENTERRIA, David (CERN)

Contribution ID: 3

Type: **not specified**

## **Status of the International Linear Collider**

*Monday, 7 September 2015 15:30 (30 minutes)*

**Presenter:** YOKOYA, Kaoru

Contribution ID: 4

Type: **not specified**

## **The quest for New Physics: high-intensity vs. high-energy frontiers**

**Presenter:** PARADISI, Paride (CERN)

Contribution ID: 5

Type: **not specified**

## **BSM searches at the LHC**

*Tuesday, 8 September 2015 09:30 (30 minutes)*

**Presenter:** Dr SRIMANOBHAS, Norraphat (Chulalongkorn University, Thailand)

Contribution ID: 6

Type: **not specified**

## Naturalness after LHC Run I

*Tuesday, 8 September 2015 10:00 (30 minutes)*

**Presenter:** ROMANINO, Andrea (TS)



Contribution ID: 7

Type: **not specified**

# **EFT analys of the off-shell Higgs production in gluon fusion at FCC**

*Tuesday, 8 September 2015 10:30 (30 minutes)*

**Presenter:** Dr AZATOV, Aleksandr (Dipartimento di Fisica, Universita di Roma "La Sapienza")

Contribution ID: 8

Type: **not specified**

## **Composite Higgs models and ttbar production at future e+e- colliders**

*Tuesday, 8 September 2015 11:30 (30 minutes)*

**Presenter:** Mr BARDUCCI, Daniele (University of Southampton / NExT Institute)

Contribution ID: 9

Type: **not specified**

## **Direct Probes of Higgs Yukawa couplings (tbc)**

**Presenter:** TBA, tba

Contribution ID: **10**

Type: **not specified**

## **Heavy Neutrinos at Future Colliders**

*Tuesday, 8 September 2015 12:00 (30 minutes)*

**Presenter:** DEV, Bhupal

Contribution ID: 11

Type: **not specified**

## **Testing the Standard Model with the lepton $g-2$**

*Tuesday, 8 September 2015 16:30 (30 minutes)*

**Presenter:** PASSERA, Massimo (PD)

Contribution ID: 12

Type: **not specified**

## **Measuring the Leading order hadronic contribution to $g-2$ in the space-like region**

*Tuesday, 8 September 2015 17:00 (30 minutes)*

**Presenter:** VENANZONI, Graziano (LNF)

Contribution ID: 13

Type: **not specified**

## **The New Muon g-2 Experiment at Fermilab**

*Tuesday, 8 September 2015 17:30 (30 minutes)*

**Presenter:** Prof. HERTZOG, David (University of Washington)

Contribution ID: 14

Type: **not specified**

## **Higher-order QCD corrections for $e^+e^-$ annihilation into a top pair**

**Presenter:** Mr GAO, Jun (USTC/CPM)



Contribution ID: 15

Type: **not specified**

## **Electroweak corrections to top-pair production at lepton colliders**

*Tuesday, 8 September 2015 15:30 (30 minutes)*

**Presenter:** Dr KOU, Emi Kou (LAL/IN2P3)

Contribution ID: **16**

Type: **not specified**

## **Top physics at Linear Colliders**

*Tuesday, 8 September 2015 15:00 (30 minutes)*

**Presenter:** Mr POESCHL, Roman Poeschl (LAL Orsay)

Contribution ID: 17

Type: **not specified**

## Theory overview on top mass and couplings

*Wednesday, 9 September 2015 09:30 (30 minutes)*

**Presenter:** Prof. LAENEN, Eric (Nikhef/UvAe)

Contribution ID: **18**

Type: **not specified**

## **Status report on top mass and coupling measurements**

*Wednesday, 9 September 2015 10:00 (30 minutes)*

**Presenter:** Prof. COBAL, Marina (Udine U. & INFN)

Contribution ID: **19**

Type: **not specified**

## **Top Physics at future hadron colliders**

*Wednesday, 9 September 2015 10:30 (30 minutes)*

**Presenter:** ZARO, Marco

Contribution ID: **20**

Type: **not specified**

# Higgs Physics at the LHC

*Wednesday, 9 September 2015 11:30 (30 minutes)*

**Presenter:** BINI, Cesare (ROMA1)

Contribution ID: 21

Type: **not specified**

## Prospects for double Higgs production

*Wednesday, 9 September 2015 12:00 (30 minutes)*

**Presenter:** PANICO, Giuliano

Contribution ID: 22

Type: **not specified**

## **Singlet-like Higgs bosons at present and future colliders**

*Wednesday, 9 September 2015 12:30 (30 minutes)*

**Presenter:** Dr BUTTAZZO, Dario (Institute for Advanced Study, TU Munich)



Contribution ID: 23

Type: **not specified**

# **Cosmological history of the Higgs vacuum instability**

*Thursday, 10 September 2015 09:30 (30 minutes)*

**Presenter:** Mr MORGANTE, Enrico (Université de Genève)

Contribution ID: 24

Type: **not specified**

## **Latest results from the AMS-02 experiment on the International Space Station after 4 years in space**

*Thursday, 10 September 2015 10:00 (30 minutes)*

**Presenter:** VAGELLI, Valerio

Contribution ID: 25

Type: **not specified**

## **Modelling Galactic cosmic ray origin and propagation: recent successes and open issues**

*Thursday, 10 September 2015 10:30 (30 minutes)*

**Presenter:** GRASSO, Dario (PI)

Contribution ID: 26

Type: **not specified**

## **Robust collider limits on heavy-mediator dark matter**

*Thursday, 10 September 2015 11:30 (30 minutes)*

**Presenter:** RACCO, Davide

Contribution ID: 27

Type: **not specified**

## **Exotic leptons at future linear colliders**

*Thursday, 10 September 2015 12:00 (30 minutes)*

**Presenter:** BIONDINI, Simone

Contribution ID: 28

Type: **not specified**

## **Effects of Sfermion Mixing induced by RGE Running in the Minimal Flavor Violating CMSSM**

*Thursday, 10 September 2015 12:30 (30 minutes)*

**Presenter:** GOMEZ, Mario E.

Contribution ID: 29

Type: **not specified**

## Colloquium: The future of accelerator physics

*Thursday, 10 September 2015 14:30 (1 hour)*

With the discovery of the Higgs boson at CERN, the Standard Model has been turned into a complete theory, fully consistent with all available data. However, the Brout-Englert-Higgs mechanism opens a new window, well beyond particle physics, which has to be precisely explored at present and future accelerators. There are two ways to carry out this exploration: directly, by producing new particles, which requires very large energies, and indirectly, by measuring their effects at quantum level, which requires high precision. Unfortunately, no accelerator is able to cover both aspects. This talk is aimed at this comparison, rather than at discussing strategies, politics and techniques, but nevertheless these issues will not be ignored.

**Presenter:** RICHARD, Francois

Contribution ID: **30**

Type: **not specified**

## **Hunting for heavy composite Majorana neutrinos at the LHC**

*Thursday, 10 September 2015 16:30 (30 minutes)*

**Presenter:** LEONARDI, Roberto (PG)



Contribution ID: **31**

Type: **not specified**

## **Higgs and supersymmetry**

*Thursday, 10 September 2015 15:30 (30 minutes)*

**Presenter:** VILLADORO, Giovanni

Contribution ID: 32

Type: **not specified**

## **Theory status of four-fermion production at e+ e- colliders**

*Thursday, 10 September 2015 17:00 (30 minutes)*

**Presenter:** Dr SCHWINN, Christian (Freiburg University)

Contribution ID: 33

Type: **not specified**

## **First results from LHCb 13 TeV run, and prospects of measurements at higher luminosity**

*Monday, 7 September 2015 17:00 (30 minutes)*

**Presenter:** PUNZI, Giovanni (PI)

Contribution ID: **34**

Type: **not specified**

## **QCD at the LHC: status and prospects**

*Friday, 11 September 2015 09:30 (30 minutes)*

**Presenter:** TURRA, Ruggero (MI)

Contribution ID: 35

Type: **not specified**

## **The growing toolbox of perturbative QCD**

*Friday, 11 September 2015 10:00 (30 minutes)*

**Presenter:** MAGNEA, Lorenzo (TO)

Contribution ID: **36**

Type: **not specified**

## **Parton Distribution Functions at future colliders**

*Friday, 11 September 2015 10:30 (30 minutes)*

**Presenter:** GUFFANTI, Alberto

Contribution ID: 37

Type: **not specified**

## **Higgs effects in $t\bar{t}$ production near threshold in $e^+e^-$ annihilation**

*Thursday, 10 September 2015 17:30 (30 minutes)*

**Presenter:** BENEKE, Martin

Contribution ID: **38**

Type: **not specified**

## **NNLO QCD calculations for future high energy colliders**

*Friday, 11 September 2015 12:00 (30 minutes)*

**Presenter:** CIERI, Leandro Javier (ROMA1)



Contribution ID: **39**

Type: **not specified**

# **An alternative subtraction scheme for NLO QCD calculations**

*Friday, 11 September 2015 12:30 (30 minutes)*

**Presenter:** ROBENS, Tania

Contribution ID: 40

Type: **not specified**

# QCD Effects at High Luminosity Hadron Colliders

*Friday, 11 September 2015 11:30 (30 minutes)*

**Presenter:** HAUTMANN, Francesco (University of Oxford)

Contribution ID: 41

Type: **not specified**

## **Indirect determinations of the top-quark mass**

*Tuesday, 8 September 2015 14:30 (30 minutes)*

**Presenter:** PARADISI, Paride (CERN)

Contribution ID: 42

Type: **not specified**

## **Total pp cross-sections at LHC and cosmic ray energies**

*Monday, 7 September 2015 17:30 (30 minutes)*

**Presenter:** PANCHERI, Giulia (LNF)