

Frontier Science 2005

Report of Contributions

Contribution ID: 1

Type: **not specified**

Standard Model Physics at LHC

Monday 12 September 2005 14:30 (40 minutes)

Author: MALTONI, F. (CERN)

Presenter: MALTONI, F. (CERN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 2

Type: **not specified**

Tests of the ATLAS Trigger and DAQ

Monday 12 September 2005 18:25 (15 minutes)

Author: LEHMANN, G. (CERN)

Presenter: LEHMANN, G. (CERN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 3

Type: **not specified**

The calibration challenge for the CMS electromagnetic calorimeter

Monday 12 September 2005 18:40 (15 minutes)

Author: GOVONI, P. (Univ. Milano-Bicocca and INFN)

Presenter: GOVONI, P. (Univ. Milano-Bicocca and INFN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 4

Type: **not specified**

Physics Beyond the Standard Model at LHC

Monday 12 September 2005 15:10 (40 minutes)

Author: MANGANO, M. (CERN)

Presenter: MANGANO, M. (CERN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 5

Type: **not specified**

Montecarlo generators for LHC

Monday 12 September 2005 15:50 (40 minutes)

Author: PICCININI, F. (INFN - Pavia)

Presenter: PICCININI, F. (INFN - Pavia)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 6

Type: **not specified**

The first days at CMS

Monday 12 September 2005 17:00 (20 minutes)

Author: BOCCALI, T. (Scuola Normale Superiore)

Presenter: BOCCALI, T. (Scuola Normale Superiore)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 7

Type: **not specified**

Physics with the first events at ATLAS

Monday 12 September 2005 17:20 (20 minutes)

Author: LIMPER, M. (NIKHEF)

Presenter: LIMPER, M. (NIKHEF)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 8

Type: **not specified**

VV fusion at CMS

Monday 12 September 2005 17:40 (15 minutes)

Author: BELLAN, R. (Univ. Torino and INFN)

Presenter: BELLAN, R. (Univ. Torino and INFN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: 9

Type: **not specified**

Search for the Higgs in the WW channel at CMS

Monday 12 September 2005 17:55 (15 minutes)

Author: ROVELLI, C. (Univ. Milano-Bicocca and INFN)

Presenter: ROVELLI, C. (Univ. Milano-Bicocca and INFN)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: **10**

Type: **not specified**

Search for SUSY at ATLAS

Monday 12 September 2005 18:10 (15 minutes)

Author: LARI, T. (INFN - Milano)

Presenter: LARI, T. (INFN - Milano)

Session Classification: LHC: Physics and Detectors (I)

Contribution ID: **11**

Type: **not specified**

The detectors at LHC

Tuesday 13 September 2005 09:00 (1 hour)

Author: BLOCH, P. (CERN)

Presenter: BLOCH, P. (CERN)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 12

Type: **not specified**

The ATLAS tracker

Tuesday 13 September 2005 10:00 (30 minutes)

Author: WEBER, M. (RAL - Oxford)

Presenter: WEBER, M. (RAL - Oxford)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 13

Type: **not specified**

The CMS electromagnetic calorimeter

Tuesday 13 September 2005 11:00 (30 minutes)

Author: DIEMOZ, M. (INFN - Roma)

Presenter: DIEMOZ, M. (INFN - Roma)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 14

Type: **not specified**

The RICH detectors: applications to LHCb

Tuesday 13 September 2005 11:30 (35 minutes)

Author: ULLALAND, O. (CERN)

Presenter: ULLALAND, O. (CERN)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 15

Type: **not specified**

The muon system of LHCb

Tuesday 13 September 2005 12:05 (25 minutes)

Author: SATTÀ, A. (INFN - Roma)

Presenter: SATTÀ, A. (INFN - Roma)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 16

Type: **not specified**

The triple-GEM detector of the muon system of LHCb

Tuesday 13 September 2005 12:30 (15 minutes)

Author: BONIVENTO, W. (INFN - Cagliari)

Presenter: BONIVENTO, W. (INFN - Cagliari)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: 17

Type: **not specified**

Test of CMS muon drift chambers with cosmic rays

Tuesday 13 September 2005 12:45 (15 minutes)

Author: MONACO, V. (Univ. Torino and INFN)

Presenter: MONACO, V. (Univ. Torino and INFN)

Session Classification: LHC : Physics and Detectors (Part II)

Contribution ID: **18**

Type: **not specified**

CKM Physics

Tuesday 13 September 2005 14:30 (40 minutes)

Author: STOCCHI, A. (LAL - Orsay)

Presenter: STOCCHI, A. (LAL - Orsay)

Session Classification: Flavour Physics and CP violation

Contribution ID: **19**

Type: **not specified**

Results from Babar and Belle

Tuesday 13 September 2005 15:10 (40 minutes)

Author: FERRONI, F. (Univ. Roma and INFN)

Presenter: FERRONI, F. (Univ. Roma and INFN)

Session Classification: Flavour Physics and CP violation

Contribution ID: 20

Type: **not specified**

New Physics in the Heavy Flavour Sector

Tuesday 13 September 2005 15:50 (25 minutes)

Author: ISIDORI, G. (INFN - LNF)

Presenter: ISIDORI, G. (INFN - LNF)

Session Classification: Flavour Physics and CP violation

Contribution ID: 21

Type: **not specified**

The present and future of K Physics

Tuesday 13 September 2005 16:45 (30 minutes)

Author: MIKULEC, I. (OAW - Vienna)

Presenter: MIKULEC, I. (OAW - Vienna)

Session Classification: Flavour Physics and CP violation

Contribution ID: 22

Type: **not specified**

New hadron spectroscopy with Babar

Tuesday 13 September 2005 17:15 (15 minutes)

Author: MOHANTY, G. (Univ. Warwick)

Presenter: MOHANTY, G. (Univ. Warwick)

Session Classification: Flavour Physics and CP violation

Contribution ID: 23

Type: **not specified**

Rare decays and search for new physics with Babar

Tuesday 13 September 2005 17:30 (15 minutes)

Author: BAUER, J. (Univ. Mississippi)

Presenter: BAUER, J. (Univ. Mississippi)

Session Classification: Flavour Physics and CP violation

Contribution ID: 24

Type: **not specified**

Vus determination from K decays at KLOE

Tuesday 13 September 2005 17:45 (30 minutes)

Author: BLOISE, C. (INFN - LNF)

Presenter: BLOISE, C. (INFN - LNF)

Session Classification: Flavour Physics and CP violation

Contribution ID: 25

Type: **not specified**

The status of the neutrino oscillations

Wednesday 14 September 2005 09:00 (45 minutes)

Author: PETCOV, S. (SISSA)

Presenter: PETCOV, S. (SISSA)

Session Classification: Neutrino Physics

Contribution ID: 26

Type: **not specified**

The future of the neutrino physics

Wednesday 14 September 2005 09:45 (45 minutes)

Author: BLONDEL, A. (Univ. Geneva)

Presenter: BLONDEL, A. (Univ. Geneva)

Session Classification: Neutrino Physics

Contribution ID: 27

Type: **not specified**

The experiments at the CNGS beam

Wednesday 14 September 2005 11:00 (30 minutes)

Author: TERRANOVA, F. (INFN - LNF)

Presenter: TERRANOVA, F. (INFN - LNF)

Session Classification: Neutrino Physics

Contribution ID: 28

Type: **not specified**

A global fit to the neutrino masses

Wednesday 14 September 2005 11:30 (15 minutes)

Author: ANTONELLI, V. (Univ. Milano and INFN)

Presenter: ANTONELLI, V. (Univ. Milano and INFN)

Session Classification: Neutrino Physics

Contribution ID: 29

Type: **not specified**

Measurement of charm production and decay by CHORUS

Wednesday 14 September 2005 11:45 (15 minutes)

Author: DE ROSA, G. (Univ. Napoli and INFN)

Presenter: DE ROSA, G. (Univ. Napoli and INFN)

Session Classification: Neutrino Physics

Contribution ID: **30**

Type: **not specified**

Simulation of neutrino-nucleon interactions

Wednesday 14 September 2005 12:00 (15 minutes)

Author: KOSOV, M. (CERN)

Presenter: KOSOV, M. (CERN)

Session Classification: Neutrino Physics

Contribution ID: 31

Type: **not specified**

Double beta decay experiments

Wednesday 14 September 2005 12:15 (35 minutes)

Author: PREVITALI, E. (Univ. Milano-Bicocca and INFN)

Presenter: PREVITALI, E. (Univ. Milano-Bicocca and INFN)

Session Classification: Neutrino Physics

Contribution ID: **32**

Type: **not specified**

The International Linear Collider

Wednesday 14 September 2005 14:30 (1 hour)

Author: PICCOLO, M. (INFN - LNF)

Presenter: PICCOLO, M. (INFN - LNF)

Session Classification: Future e+ e- colliders

Contribution ID: 33

Type: **not specified**

From TESLA to the I.L.C.

Wednesday 14 September 2005 15:30 (1 hour)

Author: PAGANI, C. (Univ. Milano and INFN)

Presenter: PAGANI, C. (Univ. Milano and INFN)

Session Classification: Future e+ e- colliders

Contribution ID: **34**

Type: **not specified**

CLIC

Wednesday 14 September 2005 17:00 (30 minutes)

Author: BRAUN, H. (CERN)

Presenter: BRAUN, H. (CERN)

Session Classification: Future e+ e- colliders

Contribution ID: 35

Type: **not specified**

X - FEL

Wednesday 14 September 2005 17:30 (40 minutes)

Author: BERTOLUCCI, S. (INFN - LNF)

Presenter: BERTOLUCCI, S. (INFN - LNF)

Session Classification: Future e+ e- colliders

Contribution ID: 36

Type: **not specified**

An alternative measurement of alpha electromagnetic

Thursday 15 September 2005 09:00 (30 minutes)

Author: TRENTADUE, L. (Univ. Parma and INFN)

Presenter: TRENTADUE, L. (Univ. Parma and INFN)

Session Classification: Special Topics

Contribution ID: 37

Type: **not specified**

The ALICE SPD: test of prototype and detector performance

Thursday 15 September 2005 12:05 (15 minutes)

Author: SANTORO, R. (Univ. Bari and INFN)

Presenter: SANTORO, R. (Univ. Bari and INFN)

Session Classification: Special Topics

Contribution ID: **38**

Type: **not specified**

Validation of GEANT4 Bertini cascade nuclide production

Thursday 15 September 2005 12:20 (15 minutes)

Author: HEIKKINEN, A. (Helsinki Institute of Physics)

Presenter: HEIKKINEN, A. (Helsinki Institute of Physics)

Session Classification: Special Topics

Contribution ID: 39

Type: **not specified**

GEANT4 for the Medicine

Thursday 15 September 2005 12:35 (30 minutes)

Author: SANTIN, G. (ESA)

Presenter: SANTIN, G. (ESA)

Session Classification: Special Topics

Contribution ID: 40

Type: **not specified**

The flavour physics in unified gauge theories

Thursday 15 September 2005 09:30 (15 minutes)

Author: PICARIELLO, M. (Univ. Milano and INFN)

Presenter: PICARIELLO, M. (Univ. Milano and INFN)

Session Classification: Special Topics

Contribution ID: 41

Type: **not specified**

The top mass measurement at CDF

Thursday 15 September 2005 09:45 (20 minutes)

Author: KORDAS, K. (INFN - LNF)

Presenter: KORDAS, K. (INFN - LNF)

Session Classification: Special Topics

Contribution ID: 42

Type: **not specified**

Recent results in charm flavour physics

Thursday 15 September 2005 10:05 (30 minutes)

Author: SHIPSEY, I. (Purdue Univ.)

Presenter: SHIPSEY, I. (Purdue Univ.)

Session Classification: Special Topics

Contribution ID: 43

Type: **not specified**

Long term tests of large CMS silicon detector structures

Thursday 15 September 2005 11:05 (15 minutes)

Author: D'ALFONSO, M. (INFN - Pisa)

Presenter: D'ALFONSO, M. (INFN - Pisa)

Session Classification: Special Topics

Contribution ID: 44

Type: **not specified**

Integration of the CMS silicon tracker

Thursday 15 September 2005 11:20 (15 minutes)

Author: MERSI, S. (Univ. Firenze and INFN)

Presenter: MERSI, S. (Univ. Firenze and INFN)

Session Classification: Special Topics

Contribution ID: 45

Type: **not specified**

Construction of the CMS silicon strip modules

Thursday 15 September 2005 11:35 (15 minutes)

Author: CHIORBOLI, M. (Univ. Catania and INFN)

Presenter: CHIORBOLI, M. (Univ. Catania and INFN)

Session Classification: Special Topics

Contribution ID: 46

Type: **not specified**

Muon reconstruction software in CMS

Thursday 15 September 2005 11:50 (15 minutes)

Author: CERMINARA, G. (Univ. Torino and INFN)

Presenter: CERMINARA, G. (Univ. Torino and INFN)

Session Classification: Special Topics

Contribution ID: 47

Type: **not specified**

Physics and Computers

Thursday 15 September 2005 14:30 (1 hour)

Author: REBBI, C. (Boston University)

Presenter: REBBI, C. (Boston University)

Session Classification: Computer Science

Contribution ID: 48

Type: **not specified**

Computers and Bioscience

Thursday 15 September 2005 15:30 (30 minutes)

Author: FOGOLARI, F. (Univ. Udine)

Presenter: FOGOLARI, F. (Univ. Udine)

Session Classification: Computer Science

Contribution ID: 49

Type: **not specified**

GARR and the research network

Thursday 15 September 2005 16:30 (40 minutes)

Author: VALENTE, E. (Univ. Roma and INFN)

Presenter: VALENTE, E. (Univ. Roma and INFN)

Session Classification: Computer Science

Contribution ID: 50

Type: **not specified**

Running the Italian Tier-1 for CMS using GRID tools

Thursday 15 September 2005 17:10 (15 minutes)

Author: BONACORSI, D. (INFN - CNAF)

Presenter: BONACORSI, D. (INFN - CNAF)

Session Classification: Computer Science

Contribution ID: 51

Type: **not specified**

Prototypes for User Analysis on the GRID - the ARDA project

Thursday 15 September 2005 17:25 (20 minutes)

Author: LIKO, D. (CERN)

Presenter: LIKO, D. (CERN)

Session Classification: Computer Science

Contribution ID: 52

Type: **not specified**

POOL the persistency framework for LHC

Thursday 15 September 2005 17:45 (15 minutes)

Author: XIE, Z. (Princeton University)

Presenter: XIE, Z. (Princeton University)

Session Classification: Computer Science

Contribution ID: 53

Type: **not specified**

The LCG project

Thursday 15 September 2005 18:00 (20 minutes)

Author: SCIABÀ A. (CERN)

Presenter: SCIABÀ A. (CERN)

Session Classification: Computer Science

Contribution ID: 54

Type: **not specified**

A review of Detectors for Medicine

Friday 16 September 2005 09:00 (1 hour)

Author: RUSSO, P. (Univ. Napoli and INFN)

Presenter: RUSSO, P. (Univ. Napoli and INFN)

Session Classification: Joint adventures with Medical Science

Contribution ID: 55

Type: **not specified**

Hadrontherapy in the world

Friday 16 September 2005 10:00 (50 minutes)

Author: ROSSI, S. (CNAO)

Presenter: ROSSI, S. (CNAO)

Session Classification: Joint adventures with Medical Science

Contribution ID: 56

Type: **not specified**

The CATANA project

Friday 16 September 2005 11:20 (30 minutes)

Author: CIRRONE, G. (INFN - LNS)

Presenter: CIRRONE, G. (INFN - LNS)

Session Classification: Joint adventures with Medical Science

Contribution ID: 57

Type: **not specified**

3D silicon detectors for imaging applications

Friday 16 September 2005 11:50 (25 minutes)

Author: DAVIÀ C. (Brunel University)

Presenter: DAVIÀ C. (Brunel University)

Session Classification: Joint adventures with Medical Science

Contribution ID: 58

Type: **not specified**

FLUKA for medicine and biology

Friday 16 September 2005 12:15 (25 minutes)

Author: SALA, P. (Univ. Milano and INFN)

Presenter: SALA, P. (Univ. Milano and INFN)

Session Classification: Joint adventures with Medical Science

Contribution ID: 59

Type: **not specified**

Lung nodule detection in low-dose and high-resolution CT scans

Friday 16 September 2005 12:40 (15 minutes)

Author: RETICO, A. (INFN - Pisa)

Presenter: RETICO, A. (INFN - Pisa)

Session Classification: Joint adventures with Medical Science

Contribution ID: **60**

Type: **not specified**

MATRIX, an innovative Pixel Ionization Chamber

Friday 16 September 2005 12:55 (15 minutes)

Author: PITTA, G. (TERA)

Presenter: PITTA, G. (TERA)

Session Classification: Joint adventures with Medical Science

Contribution ID: **61**

Type: **not specified**

LHC

Friday 16 September 2005 15:00 (30 minutes)

Author: TOMMASINI, D. (CERN)

Presenter: TOMMASINI, D. (CERN)

Session Classification: Conclusion Session

Contribution ID: **62**

Type: **not specified**

Neutrino beta beams

Friday 16 September 2005 15:30 (30 minutes)

Author: MEZZETTO, M. (INFN - Padova)

Presenter: MEZZETTO, M. (INFN - Padova)

Session Classification: Conclusion Session

Contribution ID: 63

Type: **not specified**

Conclusive talk: QCD, from asymptotic freedom to LHC

Friday 16 September 2005 16:00 (1 hour)

Author: MARCHESINI, G. (Univ. Milano-Bicocca and INFN)

Presenter: MARCHESINI, G. (Univ. Milano-Bicocca and INFN)

Session Classification: Conclusion Session

Contribution ID: 64

Type: **not specified**

GRID facilities worldwide

Friday 16 September 2005 14:20 (40 minutes)

Author: MAZZUCATO, M. (INFN - CNAF)

Presenter: MAZZUCATO, M. (INFN - CNAF)

Session Classification: Conclusion Session

Contribution ID: 65

Type: **not specified**

Fisica Fondamentale e Fisica Medica: centodieci anni di storie intrecciate

Friday 16 September 2005 17:30 (1 hour)

Author: AMALDI, U. (Univ. Milano-Bicocca and TERA)

Presenter: AMALDI, U. (Univ. Milano-Bicocca and TERA)

Session Classification: Public Session