

Physics at LHC

Report of Contributions

Contribution ID: **1**

Type: **not specified**

CMS Review

Monday 7 July 2003 09:00 (35 minutes)

Author: , Tejinder Virdee (CERN/Imperial College)

Presenter: , Tejinder Virdee (CERN/Imperial College)

Session Classification: Higgs Day - Review Talks

Contribution ID: 2

Type: **not specified**

Higgs Physics, theoretical overview

Monday 7 July 2003 09:05 (40 minutes)

Author: , Weiglein, G. (IPPP, Durham)

Presenter: , Weiglein, G. (IPPP, Durham)

Session Classification: Higgs Day - Review Talks

Contribution ID: 3

Type: **not specified**

Higgs results from LEP

Monday 7 July 2003 09:10 (35 minutes)

Author: , Vanina Ruhlmann-Kleider (Saclay)

Presenter: , Vanina Ruhlmann-Kleider (Saclay)

Session Classification: Higgs Day - Review Talks

Contribution ID: 4

Type: **not specified**

Prospects for Higgs searches at the Tevatron Run II

Monday 7 July 2003 09:15 (35 minutes)

Author: , John Conway (Rutgers)

Presenter: , John Conway (Rutgers)

Session Classification: Higgs Day - Review Talks

Contribution ID: 5

Type: **not specified**

Higgs searches, review of LHC potential

Monday 7 July 2003 09:20 (35 minutes)

Author: NIKITENKO, Alexandre (Imperial College)

Presenter: NIKITENKO, Alexandre (Imperial College)

Session Classification: Higgs Day - Review Talks

Contribution ID: 6

Type: **not specified**

LHC Review

Saturday 12 July 2003 09:00 (30 minutes)

Author: CASHMORE, Roger (Nuclear Physics Laboratory)

Presenter: CASHMORE, Roger (Nuclear Physics Laboratory)

Session Classification: Beyond LHC Day

Contribution ID: 7

Type: **not specified**

Physics perspectives for a SuperLHC

Saturday 12 July 2003 09:05 (30 minutes)

Author: DE ROECK, Albert (CERN)

Presenter: DE ROECK, Albert (CERN)

Session Classification: Beyond LHC Day

Contribution ID: 8

Type: **not specified**

Physics potential of the high energy e^+e^- Linear Collider

Saturday 12 July 2003 09:10 (40 minutes)

Author: , Grahame Blair (Royal Holloway University London)

Presenter: , Grahame Blair (Royal Holloway University London)

Session Classification: Beyond LHC Day

Contribution ID: 9

Type: **not specified**

Very Large Hadron Collider

Saturday 12 July 2003 09:15 (25 minutes)

Author: DENISOV, Dmitri (Fermi National Accelerator Laboratory (FNAL))

Presenter: DENISOV, Dmitri (Fermi National Accelerator Laboratory (FNAL))

Session Classification: Beyond LHC Day

Contribution ID: **10**

Type: **not specified**

LHC in Context

Saturday 12 July 2003 09:20 (1 hour)

Author: , Frank Wilczek (MIT)

Presenter: , Frank Wilczek (MIT)

Session Classification: Beyond LHC Day

Contribution ID: **11**

Type: **not specified**

The CMS Electromagnetic Calorimeter

Saturday 12 July 2003 14:00 (15 minutes)

Author: LETHUILLIER, Morgan (Institut National de Physique Nucl et Phys. Part. (IN2P3-CNRS))

Presenter: LETHUILLIER, Morgan (Institut National de Physique Nucl et Phys. Part. (IN2P3-CNRS))

Session Classification: Posters

Contribution ID: **12**

Type: **not specified**

The LHCb Experiment

Saturday 12 July 2003 14:05 (15 minutes)

Author: GEORGE, Katherine (Unknown)

Presenter: GEORGE, Katherine (Unknown)

Session Classification: Posters

Contribution ID: 13

Type: **not specified**

Saturation regimes at LHC energies at different approaches

Saturday 12 July 2003 14:10 (15 minutes)

Author: , Selyugin Oleg (JINR Dubna)

Presenter: , Selyugin Oleg (JINR Dubna)

Session Classification: Posters

Contribution ID: 14

Type: **not specified**

Z-scaling from U70 to LHC

Saturday 12 July 2003 14:15 (15 minutes)

Author: , Tokarev Mikhail (JINR Dubna)

Presenter: , Tokarev Mikhail (JINR Dubna)

Session Classification: Posters

Contribution ID: 15

Type: **not specified**

Measurement of Spin Correlations of Top-Antitop Pairs in the ATLAS Experiment and Influence of Heavy Higgs Boson

Saturday 12 July 2003 14:20 (15 minutes)

Author: , Karel Smolek (Czech Technical University, Prague)

Presenter: , Karel Smolek (Czech Technical University, Prague)

Session Classification: Posters

Contribution ID: **16**

Type: **not specified**

H to 4 electrons in CMS $\sqrt{s}$ full simulation

Monday 7 July 2003 14:00 (20 minutes)

Author: PULJAK, Ivica (Technical University of Split FESB)

Presenter: PULJAK, Ivica (Technical University of Split FESB)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 17

Type: **not specified**

H to mu-mu in SM and MSSM

Monday 7 July 2003 14:45 (15 minutes)

Author: , Marcel Vos (IFIC Valencia)

Presenter: , Marcel Vos (IFIC Valencia)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: **18**

Type: **not specified**

WW scattering

Monday 7 July 2003 14:50 (15 minutes)

Author: AMAPANE, Nicola (European Organization for Nuclear Research (CERN))

Presenter: AMAPANE, Nicola (European Organization for Nuclear Research (CERN))

Session Classification: Higgs Day - Contributed Talks

Contribution ID: **19**

Type: **not specified**

H to gamma-gamma $\rightarrow$ full simulation

Monday 7 July 2003 14:05 (20 minutes)

Author: LOCCI, Elizabeth (DAPNIA)

Presenter: LOCCI, Elizabeth (DAPNIA)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 20

Type: **not specified**

Higgs Searches in the Vector Boson Fusion Channels in ATLAS

Monday 7 July 2003 14:10 (15 minutes)

Author: KANZAKI, Junichi (High Energy Accelerator Research Organization (KEK))

Presenter: KANZAKI, Junichi (High Energy Accelerator Research Organization (KEK))

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 21

Type: **not specified**

H to WW to $ln\bar{ln}\nu$, gg and IVB fusion

Monday 7 July 2003 14:15 (15 minutes)

Author: KUNORI, Shuichi (Elementary Particles and High Energy Physics Groups)

Presenter: KUNORI, Shuichi (Elementary Particles and High Energy Physics Groups)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 22

Type: **not specified**

Measurements of SM Higgs parameters (mass width, couplings, spin)

Monday 7 July 2003 14:20 (20 minutes)

Author: , Lidija Zivkovic (Weizmann Institute of Science)

Presenter: , Lidija Zivkovic (Weizmann Institute of Science)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 23

Type: **not specified**

Observing high mass Higgs using $pp \rightarrow qqH$ at CERN CMS experiment

Monday 7 July 2003 14:25 (20 minutes)

Author: , Hatice Yildiz (Dumlupinar University)

Presenter: , Hatice Yildiz (Dumlupinar University)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 24

Type: **not specified**

A/H to tau-tau, H+- to taunu, full trigger selection chains

Monday 7 July 2003 14:30 (20 minutes)

Author: KINNUNEN, Ritva (Helsinki Institute of Physics HIP)

Presenter: KINNUNEN, Ritva (Helsinki Institute of Physics HIP)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 25

Type: **not specified**

Updated scan of MSSM parameter space

Monday 7 July 2003 14:35 (15 minutes)

Author: GOLLUB, Nils (University of Uppsala)

Presenter: GOLLUB, Nils (University of Uppsala)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 26

Type: **not specified**

Invisible Higgs

Monday 7 July 2003 14:40 (15 minutes)

Author: , Borut Kersevan (Jozef Stefan Institute)

Presenter: , Borut Kersevan (Jozef Stefan Institute)

Session Classification: Higgs Day - Contributed Talks

Contribution ID: 27

Type: **not specified**

ATLAS Review

Tuesday 8 July 2003 09:00 (35 minutes)

Author: , Rupert Leitner (Charles University, Prague)

Presenter: , Rupert Leitner (Charles University, Prague)

Session Classification: SUSY Day - Review Talks

Contribution ID: 28

Type: **not specified**

Supersymmetry: theoretical overview

Tuesday 8 July 2003 09:05 (45 minutes)

Author: , Antonio Masiero (University of Padua)

Presenter: , Antonio Masiero (University of Padua)

Session Classification: SUSY Day - Review Talks

Contribution ID: 29

Type: **not specified**

SUSY searches at LEP

Tuesday 8 July 2003 09:10 (40 minutes)

Author: , Sylvie Rosier-Lees (LAPP Annesy)

Presenter: , Sylvie Rosier-Lees (LAPP Annesy)

Session Classification: SUSY Day - Review Talks

Contribution ID: **30**

Type: **not specified**

Tevatron results and physics potential

Tuesday 8 July 2003 09:15 (25 minutes)

Author: WHITE, Andrew (University of Texas at Arlington)

Presenter: WHITE, Andrew (University of Texas at Arlington)

Session Classification: SUSY Day - Review Talks

Contribution ID: **31**

Type: **not specified**

LHC physics potential

Tuesday 8 July 2003 09:20 (35 minutes)

Author: ABDOULLINE, Salavat (Fermi National Accelerator Laboratory (FNAL))

Presenter: ABDOULLINE, Salavat (Fermi National Accelerator Laboratory (FNAL))

Session Classification: SUSY Day - Review Talks

Contribution ID: 32

Type: **not specified**

Sparticle reconstruction at SUSY benchmark points B,G,I

Tuesday 8 July 2003 14:00 (20 minutes)

Author: , Massimiliano Chiorboli (Universita\)

Presenter: , Massimiliano Chiorboli (Universita\)

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 33

Type: **not specified**

A Detailed Study of Third Generation Squaks at LHC

Tuesday 8 July 2003 14:05 (25 minutes)

Author: KANZAKI, Junichi (High Energy Accelerator Research Organization (KEK))

Presenter: KANZAKI, Junichi (High Energy Accelerator Research Organization (KEK))

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 34

Type: **not specified**

Searches for direct slepton production

Tuesday 8 July 2003 14:10 (20 minutes)

Author: LYTKEN, Else (Unknown)

Presenter: LYTKEN, Else (Unknown)

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 35

Type: **not specified**

Reconstruction of LSP mass

Tuesday 8 July 2003 14:15 (15 minutes)

Author: , Dan Tovey (University of Sheffield)

Presenter: , Dan Tovey (University of Sheffield)

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 36

Type: **not specified**

Taus in SUSY events

Tuesday 8 July 2003 14:20 (20 minutes)

Author: , Michael Heldmann (Universita degli Studi di Milano)

Presenter: , Michael Heldmann (Universita degli Studi di Milano)

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 37

Type: **not specified**

Higgs to sparticle and sparticle to Higgs decays

Tuesday 8 July 2003 14:25 (35 minutes)

Author: MOORTGAT, Filip (European Organization for Nuclear Research (CERN))

Presenter: MOORTGAT, Filip (European Organization for Nuclear Research (CERN))

Session Classification: SUSY Day - Contributed Talks

Contribution ID: 38

Type: **not specified**

Standard Model - overview and tests at LHC

Wednesday 9 July 2003 09:05 (35 minutes)

Author: , Zoltan Kunszt (ETH Zürich)

Presenter: , Zoltan Kunszt (ETH Zürich)

Session Classification: Standard Model Day - Review Talks

Contribution ID: 39

Type: **not specified**

Overview of the SM results from LEP and Tevatron

Wednesday 9 July 2003 09:10 (40 minutes)

Author: MNICH, Joachim (Deutsches Elektronen Synchrotron (DESY))

Presenter: MNICH, Joachim (Deutsches Elektronen Synchrotron (DESY))

Session Classification: Standard Model Day - Review Talks

Contribution ID: 40

Type: **not specified**

Expectations for the Standard Model physics at LHC

Wednesday 9 July 2003 09:15 (35 minutes)

Author: DITTMAR, Michael (Eidgenossische Technische Hochschule Zurich/ETH (ETH))

Presenter: DITTMAR, Michael (Eidgenossische Technische Hochschule Zurich/ETH (ETH))

Session Classification: Standard Model Day - Review Talks

Contribution ID: 41

Type: **not specified**

Project TOTEM and diffractive physics on LHC

Wednesday 9 July 2003 09:20 (35 minutes)

Author: EGGERT, Karsten (CERN)

Presenter: EGGERT, Karsten (CERN)

Session Classification: Standard Model Day - Review Talks

Contribution ID: 42

Type: **not specified**

ALICE Review

Wednesday 9 July 2003 09:00 (35 minutes)

Author: , Karel Safarik (CERN)

Presenter: , Karel Safarik (CERN)

Session Classification: Standard Model Day - Review Talks

Contribution ID: 43

Type: **not specified**

Physics beyond Supersymmetry

Thursday 10 July 2003 09:00 (40 minutes)

Author: , Pierre Binetruy (LAL Orsay)

Presenter: , Pierre Binetruy (LAL Orsay)

Session Classification: Beyond SM and Exotics Day - Review Talks

Contribution ID: 44

Type: **not specified**

Beyond the Standard Model: review of LHC potential

Thursday 10 July 2003 09:05 (40 minutes)

Author: , Luc Poggioli (LAPP Annecy)

Presenter: , Luc Poggioli (LAPP Annecy)

Session Classification: Beyond SM and Exotics Day - Review Talks

Contribution ID: 45

Type: **not specified**

Beyond the Standard Model: Tevatron results and potential

Thursday 10 July 2003 09:10 (30 minutes)

Author: , Greg Landsberg (Brown University)

Presenter: , Greg Landsberg (Brown University)

Session Classification: Beyond SM and Exotics Day - Review Talks

Contribution ID: 46

Type: **not specified**

Lepton flavor violation

Thursday 10 July 2003 11:15 (20 minutes)

Author: MAZUMDAR, Kajari (Tata Institute of Fundamental Research (TIFR))

Presenter: MAZUMDAR, Kajari (Tata Institute of Fundamental Research (TIFR))

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 47

Type: **not specified**

Black holes at the LHC

Thursday 10 July 2003 11:20 (20 minutes)

Author: LESTER, Christopher Gorham (University of Cambridge)

Presenter: LESTER, Christopher Gorham (University of Cambridge)

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 48

Type: **not specified**

Little Higgs Task Force

Thursday 10 July 2003 11:25 (20 minutes)

Author: LECHOWSKI, Matthieu (Laboratoire de l'Accelérateur Lineaire (LAL) (IN2P3) (LAL))

Presenter: LECHOWSKI, Matthieu (Laboratoire de l'Accelérateur Lineaire (LAL) (IN2P3) (LAL))

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 49

Type: **not specified**

Randall-Sundrum gravitons to $ee, \mu\mu, \gamma\gamma$

Thursday 10 July 2003 11:30 (15 minutes)

Author: , Piotr Traczyk (Soltan Institute, Warsaw)

Presenter: , Piotr Traczyk (Soltan Institute, Warsaw)

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 50

Type: **not specified**

Search for TeV-scale bosons on the $\mu^+ \mu^-$ decay channel with CMS

Thursday 10 July 2003 11:35 (15 minutes)

Author: , Sergei Shmatov (Dubna)

Presenter: , Sergei Shmatov (Dubna)

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 51

Type: **not specified**

Kaluza-Klein modes for W,Z

Thursday 10 July 2003 11:40 (15 minutes)

Author: ESCALIER, Marc Aschille (Universites de Paris VI et VII)

Presenter: ESCALIER, Marc Aschille (Universites de Paris VI et VII)

Session Classification: Beyond SM and Exotics Day - Contributed Talks

Contribution ID: 52

Type: **not specified**

Top physics in CMS

Thursday 10 July 2003 15:00 (15 minutes)

Author: , Marc Baarmand (Florida Institute of Technology)

Presenter: , Marc Baarmand (Florida Institute of Technology)

Session Classification: Standard Model –overflow

Contribution ID: 53

Type: **not specified**

Top mass measurement

Thursday 10 July 2003 15:05 (15 minutes)

Author: , Vladislav Simak (Institute of Physics, Prague)

Presenter: , Vladislav Simak (Institute of Physics, Prague)

Session Classification: Standard Model –overflow

Contribution ID: 54

Type: **not specified**

Triple gauge couplings

Thursday 10 July 2003 15:15 (15 minutes)

Author: , Samira Hassani (DAPNIA)

Presenter: , Samira Hassani (DAPNIA)

Session Classification: Standard Model –overflow

Contribution ID: 55

Type: **not specified**

Minimum bias and underlying event

Thursday 10 July 2003 15:20 (15 minutes)

Author: , Ian Dawson (University of Sheffield)

Presenter: , Ian Dawson (University of Sheffield)

Session Classification: Standard Model –overflow

Contribution ID: 56

Type: **not specified**

Single top production in CMS

Thursday 10 July 2003 15:10 (15 minutes)

Author: , Alexander Sherstnev (MSU)

Presenter: , Alexander Sherstnev (MSU)

Session Classification: Standard Model –overflow

Contribution ID: 57

Type: **not specified**

The TOTEM experiment

Thursday 10 July 2003 15:30 (20 minutes)

Author: AVATI, Valentina (Case Western Reserve University)

Presenter: AVATI, Valentina (Case Western Reserve University)

Session Classification: Standard Model –overflow

Contribution ID: 58

Type: **not specified**

Physics potential of the ALICE experiment

Thursday 10 July 2003 15:25 (30 minutes)

Author: , Orlando Villalobos Baillie (University of Birmingham)

Presenter: , Orlando Villalobos Baillie (University of Birmingham)

Session Classification: Standard Model –overflow

Contribution ID: 59

Type: **not specified**

Theoretical overview of B-physics

Friday 11 July 2003 09:00 (40 minutes)

Author: , Matthias Neubert (Cornell)

Presenter: , Matthias Neubert (Cornell)

Session Classification: B-physics Day - Review Talks

Contribution ID: **60**

Type: **not specified**

Results from B-factories and perspectives

Friday 11 July 2003 09:05 (40 minutes)

Author: , Hiroaki Aihara (University of Tokyo)

Presenter: , Hiroaki Aihara (University of Tokyo)

Session Classification: B-physics Day - Review Talks

Contribution ID: **61**

Type: **not specified**

B physics at the Tevatron

Friday 11 July 2003 09:10 (35 minutes)

Author: , Manfred Paulini (Carnegie Mellon)

Presenter: , Manfred Paulini (Carnegie Mellon)

Session Classification: B-physics Day - Review Talks

Contribution ID: **62**

Type: **not specified**

Physics potential of LHCb

Friday 11 July 2003 09:15 (45 minutes)

Author: , Andreas Schopper (CERN)

Presenter: , Andreas Schopper (CERN)

Session Classification: B-physics Day - Review Talks

Contribution ID: 63

Type: **not specified**

B-physics with the initial/staged detector in ATLAS

Friday 11 July 2003 13:40 (20 minutes)

Author: , Brigitte Epp (Leopold-Franzens- Universität Innsbruck)

Presenter: , Brigitte Epp (Leopold-Franzens- Universität Innsbruck)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 64

Type: **not specified**

LHCb performance for $B_s \rightarrow J/\psi \phi$ and $B \rightarrow J/\psi K_s$ decays

Friday 11 July 2003 14:25 (20 minutes)

Author: VAN HUNEN, Jeroen (Ecole Polytechnique Federale Lausanne (EPFL))

Presenter: VAN HUNEN, Jeroen (Ecole Polytechnique Federale Lausanne (EPFL))

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 65

Type: **not specified**

B-physics with the initial/staged detector in CMS

Friday 11 July 2003 13:45 (20 minutes)

Author: , Nicolò Magini (Universita' di Firenze)

Presenter: , Nicolò Magini (Universita' di Firenze)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 66

Type: **not specified**

BaBar and BELLE results on B decays into $\pi^+\pi^-$, $K^+\pi^-$

Friday 11 July 2003 13:50 (25 minutes)

Author: , Dan Bowerman (Imperial College)

Presenter: , Dan Bowerman (Imperial College)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 67

Type: **not specified**

LHCb performance for Bd, Bs $\rightarrow$ h+h- measurements

Friday 11 July 2003 13:55 (25 minutes)

Author: CARBONE, Angelo (Istituto Nazionale di Fisica Nucleare (INFN))

Presenter: CARBONE, Angelo (Istituto Nazionale di Fisica Nucleare (INFN))

Session Classification: B-physics Day - Contributed Talks

Contribution ID: **68**

Type: **not specified**

BaBar and BELLE results on radiative penguin decays

Friday 11 July 2003 14:00 (25 minutes)

Author: , Mikihiro Nakao (KEK)

Presenter: , Mikihiro Nakao (KEK)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: **69**

Type: **not specified**

Study of exclusive radiative B decays with LHCb

Friday 11 July 2003 14:05 (15 minutes)

Author: PAKHLOVA, Galina (Institute for Theoretical and Experimental Physics (ITEP))

Presenter: PAKHLOVA, Galina (Institute for Theoretical and Experimental Physics (ITEP))

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 70

Type: **not specified**

Study of B decay to $K^* \mu^+ \mu^-$ with LHCb

Friday 11 July 2003 14:10 (15 minutes)

Author: LOPES, Helder (Instituto de Fisica)

Presenter: LOPES, Helder (Instituto de Fisica)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 71

Type: **not specified**

CDF prospects to measure Bs mixing

Friday 11 July 2003 14:15 (15 minutes)

Author: , Stephanie Menzemer (Universität Karlsruhe)

Presenter: , Stephanie Menzemer (Universität Karlsruhe)

Session Classification: B-physics Day - Contributed Talks

Contribution ID: 72

Type: **not specified**

LHCb performance for $B_s \rightarrow D_{sp}$ (B_s mixing) $\rightarrow$ $D_s K$ decays (γ)

Friday 11 July 2003 14:20 (20 minutes)

Author: , Richard White (Imperial College)

Presenter: , Richard White (Imperial College)

Session Classification: B-physics Day - Contributed Talks