

# **Physics at LHC 2004**

## **Report of Contributions**

Contribution ID: **1**

Type: **not specified**

## Registration

*Tuesday 13 July 2004 08:30 (30 minutes)*

**Session Classification:** Plenary Session I

Contribution ID: 2

Type: **not specified**

## Welcome address

*Tuesday 13 July 2004 09:00 (30 minutes)*

**Session Classification:** Plenary Session I

Contribution ID: 3

Type: **not specified**

## LHC Overview

*Tuesday 13 July 2004 09:30 (1 hour)*

**Primary author:** ENGELEN, Jos (CERN)

**Presenter:** ENGELEN, Jos (CERN)

**Session Classification:** Plenary Session I

Contribution ID: 4

Type: **not specified**

# SM and SUSY Higgs bosons: Phenomenological aspects for the LHC

*Tuesday 13 July 2004 11:00 (30 minutes)*

**Primary author:** DJOUADI, Abdelhak (Montpellier)

**Presenter:** DJOUADI, Abdelhak (Montpellier)

**Session Classification:** Plenary Session II

Contribution ID: 5

Type: **not specified**

# The no-Higgs signal: strong WW scattering at the LHC

*Tuesday 13 July 2004 11:30 (30 minutes)*

**Primary author:** , M. Chanowitz (LBL, USA)

**Presenter:** , M. Chanowitz (LBL, USA)

**Session Classification:** Plenary Session II

Contribution ID: 6

Type: **not specified**

## Status of Higgs searches

*Tuesday 13 July 2004 12:00 (30 minutes)*

**Primary author:** KONSTANTINIDIS, Nikolaos (Departm.of Physics and Astronomy Univ.Coll.London)

**Presenter:** KONSTANTINIDIS, Nikolaos (Departm.of Physics and Astronomy Univ.Coll.London)

**Session Classification:** Plenary Session II

Contribution ID: 7

Type: **not specified**

## Higgs Results from Tevatron Run II

*Tuesday 13 July 2004 12:30 (15 minutes)*

**Primary author:** , B. Tuchming (Saclay, France)

**Presenter:** , B. Tuchming (Saclay, France)

**Session Classification:** Plenary Session II



Contribution ID: 8

Type: **not specified**

# Higgs Physics at the LHC

*Tuesday 13 July 2004 14:15 (30 minutes)*

**Primary author:** SPHICAS, Paris (CERN)

**Presenter:** SPHICAS, Paris (CERN)

**Session Classification:** Plenary Session III

Contribution ID: 9

Type: **not specified**

## **Resummed Higgs boson transverse momentum distribution at the LHC**

*Tuesday 13 July 2004 14:45 (20 minutes)*

**Primary author:** , A. Kulesza

**Presenter:** , A. Kulesza

**Session Classification:** Working Session on Higgs I

Contribution ID: **10**

Type: **not specified**

## ATLAS: Triggering for Higgs

*Tuesday 13 July 2004 15:05 (20 minutes)*

**Primary author:** PEREZ REALE, Valeria (Laboratorium fuer Hochenergiephysik)

**Presenter:** PEREZ REALE, Valeria (Laboratorium fuer Hochenergiephysik)

**Session Classification:** Working Session on Higgs I

Contribution ID: 11

Type: **not specified**

## **Study of $H \rightarrow ZZ^* \rightarrow 4 \mu$ channel with full ATLAS detector simulation**

*Tuesday 13 July 2004 15:25 (20 minutes)*

**Primary author:** HASSANI, Samira (DAPNIA)

**Presenter:** HASSANI, Samira (DAPNIA)

**Session Classification:** Working Session on Higgs I

Contribution ID: 12

Type: **not specified**

## Search for the Standard Model Higgs boson in the decay channel into four muons

*Tuesday 13 July 2004 15:45 (20 minutes)*

**Primary author:** , M. Sani (INFN and Univ. Florence, Italy)

**Presenter:** , M. Sani (INFN and Univ. Florence, Italy)

**Session Classification:** Working Session on Higgs I

Contribution ID: 13

Type: **not specified**

## **ATLAS Higgs Boson Searches via Vector Boson Fusion**

*Tuesday 13 July 2004 16:30 (20 minutes)*

**Primary author:** ARMSTRONG, Steve (Unknown)

**Presenter:** ARMSTRONG, Steve (Unknown)

**Session Classification:** Working Session on Higgs II

Contribution ID: **14**

Type: **not specified**

## Charged Higgs Search Prospects at LHC

*Tuesday 13 July 2004 16:50 (20 minutes)*

**Primary author:** , D. P. Roy (TIFR Mumbai, India)

**Presenter:** , D. P. Roy (TIFR Mumbai, India)

**Session Classification:** Working Session on Higgs II

Contribution ID: 15

Type: **not specified**

## Neutral MSSM Higgs bosons from squark and gluino cascades with CMS

*Tuesday 13 July 2004 17:10 (20 minutes)*

**Primary author:** MARINELLI, Nancy (University of Athens)

**Presenter:** MARINELLI, Nancy (University of Athens)

**Session Classification:** Working Session on Higgs II



Contribution ID: **16**

Type: **not specified**

## Radion Searches in CMS

*Tuesday 13 July 2004 17:30 (20 minutes)*

**Primary author:** GENNAI, Simone (INFN Sezione di Pisa (INFN))

**Presenter:** GENNAI, Simone (INFN Sezione di Pisa (INFN))

**Session Classification:** Working Session on Higgs II

Contribution ID: 17

Type: **not specified**

## Higgs Boson Parameter Measurements at the LHC

*Tuesday 13 July 2004 17:50 (20 minutes)*

**Primary author:** DUEHRSEN, Michael (Albert-Ludwigs-Universitaet Freiburg)

**Presenter:** DUEHRSEN, Michael (Albert-Ludwigs-Universitaet Freiburg)

**Session Classification:** Working Session on Higgs II

Contribution ID: **18**

Type: **not specified**

## ATLAS progress report

*Wednesday 14 July 2004 09:00 (30 minutes)*

**Primary author:** NESSI, Marzio (CERN)

**Presenter:** NESSI, Marzio (CERN)

**Session Classification:** Plenary Session IV

Contribution ID: **19**

Type: **not specified**

## Status of CMS

*Wednesday 14 July 2004 09:30 (30 minutes)*

**Primary author:** BALL, Austin (CERN)

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

**Session Classification:** Plenary Session IV

Contribution ID: **20**

Type: **not specified**

## SUSY Phenomenology

*Wednesday 14 July 2004 10:00 (30 minutes)*

**Primary author:** KRAML, Sabine (Institut fuer Hochenergiephysik (HEPHY))

**Presenter:** KRAML, Sabine (Institut fuer Hochenergiephysik (HEPHY))

**Session Classification:** Plenary Session IV

Contribution ID: 21

Type: **not specified**

## Status of SUSY Searches

*Wednesday 14 July 2004 11:00 (30 minutes)*

**Primary author:** GRIVAZ, Jean-Francois (Laboratoire de l'Accelérateur Lineaire (LAL) (IN2P3) (LAL))

**Presenter:** GRIVAZ, Jean-Francois (Laboratoire de l'Accelérateur Lineaire (LAL) (IN2P3) (LAL))

**Session Classification:** Plenary Session V

Contribution ID: **22**

Type: **not specified**

## SUSY at LHC

*Wednesday 14 July 2004 11:30 (30 minutes)*

**Primary author:** PAIGE, Frank (Department of Physics)

**Presenter:** PAIGE, Frank (Department of Physics)

**Session Classification:** Plenary Session V

Contribution ID: 23

Type: **not specified**

## After the champagne — Toward the underlying theory

*Wednesday 14 July 2004 12:00 (25 minutes)*

**Primary author:** , G. Kane (University of Michigan, USA)

**Presenter:** , G. Kane (University of Michigan, USA)

**Session Classification:** Plenary Session V



Contribution ID: **24**

Type: **not specified**

## SUSY Dark Matter

*Wednesday 14 July 2004 14:00 (25 minutes)*

**Primary author:** , G. Belanger (LAPP Annecy)

**Presenter:** , G. Belanger (LAPP Annecy)

**Session Classification:** Working Session on SUSY I

Contribution ID: 25

Type: **not specified**

## Measuring the MSSM Lagrangean

*Wednesday 14 July 2004 14:25 (25 minutes)*

**Primary author:** PLEHN, Tilman (CERN)

**Presenter:** PLEHN, Tilman (CERN)

**Session Classification:** Working Session on SUSY I

Contribution ID: 26

Type: **not specified**

## CP Violation in SUSY

*Wednesday 14 July 2004 14:50 (25 minutes)*

**Primary author:** , R. Godbole

**Presenter:** , R. Godbole

**Session Classification:** Working Session on SUSY I

Contribution ID: 27

Type: **not specified**

## Lepton Number Violation in Decays of Supersymmetric Particles

*Wednesday 14 July 2004 15:15 (25 minutes)*

Due to unforeseen circumstances the talk could not be presented personally.

**Primary author:** , W. Porod (IFIC-CSIC Valencia, Spain)

**Presenter:** , W. Porod (IFIC-CSIC Valencia, Spain)

**Session Classification:** Working Session on SUSY I

Contribution ID: **28**

Type: **not specified**

# Photoproduction of Heavy Vector Mesons at the LHC

*Wednesday 14 July 2004 14:00 (35 minutes)*

**Primary author:** NYSTRAND, Joakim (Department of Physics and Technology)

**Presenter:** NYSTRAND, Joakim (Department of Physics and Technology)

**Session Classification:** Workshop on Ultraperipheral Collisions I

Contribution ID: 29

Type: **not specified**

## High-energy Photon Interactions at LHC

*Wednesday 14 July 2004 14:35 (35 minutes)*

**Primary author:** PIOTRZKOWSKI, Krzysztof (Universite Catholique de Louvain)

**Presenter:** PIOTRZKOWSKI, Krzysztof (Universite Catholique de Louvain)

**Session Classification:** Workshop on Ultraperipheral Collisions I

Contribution ID: **30**

Type: **not specified**

## Dilepton pair production at the LHC

*Wednesday 14 July 2004 15:10 (30 minutes)*

**Primary author:** , K. Hencken (University of Basel, Switzerland)

**Presenter:** , K. Hencken (University of Basel, Switzerland)

**Session Classification:** Workshop on Ultraperipheral Collisions I

Contribution ID: 31

Type: **not specified**

## **Estimating the precision of a tan beta determination with SUSY H- $\rightarrow$ tau tau in CMS**

*Wednesday 14 July 2004 16:10 (20 minutes)*

**Primary author:** LEHTI, Sami (Helsinki Institute of Physics HIP)

**Presenter:** LEHTI, Sami (Helsinki Institute of Physics HIP)

**Session Classification:** Working Session on SUSY II



Contribution ID: 32

Type: **not specified**

## **First detailed study on the CMS SUSY discovery potential with two same sign muons in the mSUGRA model**

*Wednesday 14 July 2004 16:30 (20 minutes)*

**Primary author:** , A. Drozdetski (University of Florida, Gainesville, USA)

**Presenter:** , A. Drozdetski (University of Florida, Gainesville, USA)

**Session Classification:** Working Session on SUSY II

Contribution ID: 33

Type: **not specified**

## **SUSY Measurements with ATLAS: Hadronic Signatures and Focus Point Region**

*Wednesday 14 July 2004 17:10 (20 minutes)*

**Primary author:** LARI, Tommaso (Dipartimento di Fisica)

**Presenter:** LARI, Tommaso (Dipartimento di Fisica)

**Session Classification:** Working Session on SUSY II

Contribution ID: 34

Type: **not specified**

## **SUSY with ATLAS: leptonic signatures, coannihilation region**

*Wednesday 14 July 2004 16:50 (20 minutes)*

**Primary author:** Dr COMUNE, gianluca (michigan state university)

**Presenter:** Dr COMUNE, gianluca (michigan state university)

**Session Classification:** Working Session on SUSY II

Contribution ID: 35

Type: **not specified**

## General Search for SUSY Strategy

*Wednesday 14 July 2004 17:30 (20 minutes)*

**Primary author:** , P. Renkel (Weizmann Institute of Science, Rehovot, Israel)

**Presenter:** , P. Renkel (Weizmann Institute of Science, Rehovot, Israel)

**Session Classification:** Working Session on SUSY II

Contribution ID: 36

Type: **not specified**

## Study of the gauge mediation signal with nonpointing photons at the CERN LHC

*Wednesday 14 July 2004 17:50 (20 minutes)*

**Primary author:** , K.Kawagoe

**Presenter:** , K.Kawagoe

**Session Classification:** Working Session on SUSY II

Contribution ID: 37

Type: **not specified**

## A Program of Hadron Spectroscopy with STAR

*Wednesday 14 July 2004 16:10 (30 minutes)*

**Primary author:** , S.-U. Chung (BNL, USA)

**Presenter:** , S.-U. Chung (BNL, USA)

**Session Classification:** Workshop on Ultraperipheral Collisions II

Contribution ID: **38**

Type: **not specified**

## Status of ALICE

*Thursday 15 July 2004 09:00 (25 minutes)*

**Primary author:** FABJAN, Christian (CERN)

**Presenter:** FABJAN, Christian (CERN)

**Session Classification:** Plenary Session VI

Contribution ID: 39

Type: **not specified**

## Heavy Ions - Phenomenology and Status

*Thursday 15 July 2004 09:25 (35 minutes)*

**Primary author:** , J. W. Harris (Yale University, USA)

**Presenter:** , J. W. Harris (Yale University, USA)

**Session Classification:** Plenary Session VI



Contribution ID: 40

Type: **not specified**

## Heavy Ions - Prospects at LHC

*Thursday 15 July 2004 10:00 (35 minutes)*

**Primary author:** , B. Mueller

**Presenter:** , B. Mueller

**Session Classification:** Plenary Session VI

Contribution ID: 41

Type: **not specified**

## Status and future progress of B-Physics

*Thursday 15 July 2004 11:00 (40 minutes)*

**Primary author:** , A. I. Sanda (Nagoya University, Japan)

**Presenter:** , A. I. Sanda (Nagoya University, Japan)

**Session Classification:** Plenary Session VII

Contribution ID: 42

Type: **not specified**

## Results from the B-factories and future perspectives

*Thursday 15 July 2004 11:40 (35 minutes)*

**Primary author:** , D. MacFarlane (UC San Diego, USA)

**Presenter:** , D. MacFarlane (UC San Diego, USA)

**Session Classification:** Plenary Session VII

Contribution ID: 43

Type: **not specified**

## Recent progress on the LHCb experiment

*Thursday 15 July 2004 12:15 (25 minutes)*

**Primary author:** NAKADA, Tatsuya (CERN)

**Presenter:** NAKADA, Tatsuya (CERN)

**Session Classification:** Plenary Session VII

Contribution ID: 44

Type: **not specified**

## Status of BTeV experiment at the Fermilab Tevatron

*Thursday 15 July 2004 12:40 (25 minutes)*

**Primary author:** , S. Bianco (INFN Frascati, Italy)

**Presenter:** , S. Bianco (INFN Frascati, Italy)

**Session Classification:** Plenary Session VII

Contribution ID: 45

Type: **not specified**

## Jet quenching

*Thursday 15 July 2004 14:30 (20 minutes)*

**Primary author:** , Armesto, N. (CERN, TH)

**Presenter:** , Armesto, N. (CERN, TH)

**Session Classification:** Working Session on Heavy Ions I

Contribution ID: 46

Type: **not specified**

## Jet Quenching with ALICE

*Thursday 15 July 2004 14:50 (20 minutes)*

**Primary author:** Dr MORSCH, Andreas (CERN)

**Presenter:** Dr MORSCH, Andreas (CERN)

**Session Classification:** Working Session on Heavy Ions I

Contribution ID: 47

Type: **not specified**

# Heavy-Ion Physics with the ATLAS Detector

*Thursday 15 July 2004 15:10 (20 minutes)*

**Primary author:** , L. Rosselet (University of Geneva, Switzerland)

**Presenter:** , L. Rosselet (University of Geneva, Switzerland)

**Session Classification:** Working Session on Heavy Ions I



Contribution ID: **48**

Type: **not specified**

## Heavy Ions with CMS

*Thursday 15 July 2004 15:30 (20 minutes)*

**Primary author:** WYSLOUCH, Bolek (Center for Theoretical Physics)

**Presenter:** WYSLOUCH, Bolek (Center for Theoretical Physics)

**Session Classification:** Working Session on Heavy Ions I

Contribution ID: 49

Type: **not specified**

## Recent B Physics Results from the Tevatron

*Thursday 15 July 2004 14:30 (35 minutes)*

**Primary author:** , C. Blocker (Brandeis University, USA)

**Presenter:** , C. Blocker (Brandeis University, USA)

**Session Classification:** Working Session on B-Physics I

Contribution ID: 50

Type: **not specified**

## Bd and Bs mixing at LHCb

*Thursday 15 July 2004 15:05 (25 minutes)*

**Primary author:** CARRON, Benjamin (Ecole Polytechnique Federale Lausanne (EPFL))

**Presenter:** CARRON, Benjamin (Ecole Polytechnique Federale Lausanne (EPFL))

**Session Classification:** Working Session on B-Physics I

Contribution ID: 51

Type: **not specified**

## **LHCb sensitivity to gamma with Bs -> Ds K**

*Thursday 15 July 2004 15:30 (20 minutes)*

**Primary author:** , E. Rodrigues (CERN)

**Presenter:** , E. Rodrigues (CERN)

**Session Classification:** Working Session on B-Physics I

Contribution ID: 52

Type: **not specified**

## Event characterization in ALICE

*Thursday 15 July 2004 16:20 (20 minutes)*

**Primary author:** MONTENO, Marco (Univ. + INFN)

**Presenter:** MONTENO, Marco (Univ. + INFN)

**Session Classification:** Working Session on Heavy Ions II

Contribution ID: 53

Type: **not specified**

## Studying charm production and quenching with ALICE

*Thursday 15 July 2004 16:40 (20 minutes)*

**Primary author:** , A. Dainese (Universita degli Studi di Padova, Italy)

**Presenter:** , A. Dainese (Universita degli Studi di Padova, Italy)

**Session Classification:** Working Session on Heavy Ions II

Contribution ID: 54

Type: **not specified**

## ALICE: Physics with electrons

*Thursday 15 July 2004 17:00 (20 minutes)*

**Primary author:** , R. Schicker (University of Heidelberg, Germany)

**Presenter:** , R. Schicker (University of Heidelberg, Germany)

**Session Classification:** Working Session on Heavy Ions II

Contribution ID: 55

Type: **not specified**

## Physics perspectives with the ALICE muon spectrometer

*Thursday 15 July 2004 17:20 (20 minutes)*

**Primary author:** DUPIEUX, Pascal (Laboratoire de Physique Corpusculaire (LPC))

**Presenter:** DUPIEUX, Pascal (Laboratoire de Physique Corpusculaire (LPC))

**Session Classification:** Working Session on Heavy Ions II



Contribution ID: 56

Type: **not specified**

## Quarkonia and heavy flavour detection in the CMS detector

*Thursday 15 July 2004 17:40 (20 minutes)*

**Primary author:** KODOLOVA, Olga (Institute for Nuclear Physics)

**Presenter:** KODOLOVA, Olga (Institute for Nuclear Physics)

**Session Classification:** Working Session on Heavy Ions II

Contribution ID: 57

Type: **not specified**

## Rare decays at LHCb

*Thursday 15 July 2004 17:25 (25 minutes)*

**Primary author:** BELYAEV, Ivan (Institute for Theoretical and Experimental Physics (ITEP))

**Presenter:** BELYAEV, Ivan (Institute for Theoretical and Experimental Physics (ITEP))

**Session Classification:** Working Session on B-Physics II

Contribution ID: **58**

Type: **not specified**

## ATLAS and CMS B physics prospects

*Thursday 15 July 2004 17:00 (25 minutes)*

**Primary author:** , V. Ghete (University of Innsbruck, Austria)

**Presenter:** , V. Ghete (University of Innsbruck, Austria)

**Session Classification:** Working Session on B-Physics II

Contribution ID: 59

Type: **not specified**

## **LHCb sensitivity to gamma with $B^0 \rightarrow D^0 K^*$ decay**

*Thursday 15 July 2004 16:40 (20 minutes)*

**Primary author:** AMATO, Sandra (Instituto de Fisica)

**Presenter:** AMATO, Sandra (Instituto de Fisica)

**Session Classification:** Working Session on B-Physics II

Contribution ID: 60

Type: **not specified**

## **LHCb sensitivity to gamma with B $\rightarrow$ hh and U-spin symmetry**

*Thursday 15 July 2004 16:20 (20 minutes)*

**Primary author:** FABBRI, Laura (Dipartimento di Fisica)

**Presenter:** FABBRI, Laura (Dipartimento di Fisica)

**Session Classification:** Working Session on B-Physics II

Contribution ID: **61**

Type: **not specified**

## **Vienna, Time after Time: Building and Culture through the Centuries**

*Thursday 15 July 2004 18:15 (1 hour)*

**Primary author:** R. GADSDEN (Univ. of Applied Arts, Vienna)

**Presenter:** R. GADSDEN (Univ. of Applied Arts, Vienna)

**Session Classification:** Evening Lecture

Contribution ID: **62**

Type: **not specified**

## Status and Phenomenology of the Standard Model

*Friday 16 July 2004 09:00 (35 minutes)*

**Primary author:** , P. Langacker (University of Pennsylvania, USA)

**Presenter:** , P. Langacker (University of Pennsylvania, USA)

**Session Classification:** Plenary Session VIII

Contribution ID: **63**

Type: **not specified**

## Standard Model Physics at the LHC

*Friday 16 July 2004 09:35 (35 minutes)*

**Primary author:** MNICH, Joachim (Deutsches Elektronen Synchrotron (DESY))

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

**Session Classification:** Plenary Session VIII



Contribution ID: 64

Type: **not specified**

## **Diffraction - mapping transverse structure of strong interactions**

*Friday 16 July 2004 10:30 (25 minutes)*

**Primary author:** , M. Strikman

**Presenter:** , M. Strikman

**Session Classification:** Plenary Session IX

Contribution ID: 65

Type: **not specified**

## Ultrapерipheral collisions

*Friday 16 July 2004 10:55 (20 minutes)*

**Primary author:** , K. Hencken (University of Basel, Switzerland)

**Presenter:** , K. Hencken (University of Basel, Switzerland)

**Session Classification:** Plenary Session IX

Contribution ID: **66**

Type: **not specified**

## Status of TOTEM

*Friday 16 July 2004 11:15 (20 minutes)*

**Primary author:** FERRO, Fabrizio (Universita degli Studi di Genova Dipart. di Fisica)

**Presenter:** FERRO, Fabrizio (Universita degli Studi di Genova Dipart. di Fisica)

**Session Classification:** Plenary Session IX

Contribution ID: 67

Type: **not specified**

## Diffractive Higgs Production

*Friday 16 July 2004 11:40 (25 minutes)*

**Primary author:** , A. Martin (Durham, UK)

**Presenter:** , A. Martin (Durham, UK)

**Session Classification:** Working Session on Diffractive Physics

Contribution ID: **68**

Type: **not specified**

## Predictions for Multi-Particle Final States

*Friday 16 July 2004 11:40 (25 minutes)*

**Primary author:** , S. Schumann (University of Technology Dresden, Germany)

**Presenter:** , S. Schumann (University of Technology Dresden, Germany)

**Session Classification:** Working Session on SM I

Contribution ID: 69

Type: **not specified**

## Central pp collisions at collider energies: triggers, final states

*Friday 16 July 2004 12:05 (25 minutes)*

**Primary author:** , L. Frankfurt (University of Tel Aviv, Israel)

**Presenter:** , L. Frankfurt (University of Tel Aviv, Israel)

**Session Classification:** Working Session on SM I

Contribution ID: 70

Type: **not specified**

## Phenomenology of beyond the SM searches

*Friday 16 July 2004 14:00 (40 minutes)*

**Primary author:** , J. Lykken (FNAL, USA)

**Presenter:** , J. Lykken (FNAL, USA)

**Session Classification:** Plenary Session X

Contribution ID: 71

Type: **not specified**

## Status of Beyond the SM Searches

*Friday 16 July 2004 14:40 (40 minutes)*

**Primary author:** SPIROPULU, Maria (CERN)

**Presenter:** SPIROPULU, Maria (CERN)

**Session Classification:** Plenary Session X



Contribution ID: 72

Type: **not specified**

## Higgsless electroweak symmetry breaking

*Friday 16 July 2004 15:45 (20 minutes)*

**Primary author:** , C. Csaki (Cornell University, USA)

**Presenter:** , C. Csaki (Cornell University, USA)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 73

Type: **not specified**

## Electroweak baryon number violation and a "topological condensate"

*Friday 16 July 2004 16:05 (20 minutes)*

**Primary author:** , S. Bass

**Presenter:** , S. Bass

**Session Classification:** Working Session on Beyond SM

Contribution ID: 74

Type: **not specified**

## Higgs production at the LHC in the ADD model

*Friday 16 July 2004 16:25 (20 minutes)*

**Primary author:** , D. Dominici (University of Florence, Italy)

**Presenter:** , D. Dominici (University of Florence, Italy)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 75

Type: **not specified**

## Search for Randall-Sundrum Gravitons in CMS

*Friday 16 July 2004 16:45 (20 minutes)*

**Primary author:** COLLARD, Caroline (Ecole Polytechnique)

**Presenter:** COLLARD, Caroline (Ecole Polytechnique)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 76

Type: **not specified**

## Searches for extra dimensions in ATLAS

*Friday 16 July 2004 17:05 (20 minutes)*

**Primary author:** BROCHU, Frederic (High Energy Physics Group, Cavendish Laboratory)

**Presenter:** BROCHU, Frederic (High Energy Physics Group, Cavendish Laboratory)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 77

Type: **not specified**

## Detection of $Z'$ gauge bosons in the di-muon decay mode in CMS

*Friday 16 July 2004 17:25 (20 minutes)*

**Primary author:** , V. Valuev (UC Los Angeles, USA)

**Presenter:** , V. Valuev (UC Los Angeles, USA)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 78

Type: **not specified**

## Prospects for leptoquark searches with ATLAS at the LHC

*Friday 16 July 2004 17:45 (20 minutes)*

**Primary author:** MITSOU, Vaso (Instituto de Fisica Corpuscular (IFIC) UV-CSIC)

**Presenter:** MITSOU, Vaso (Instituto de Fisica Corpuscular (IFIC) UV-CSIC)

**Session Classification:** Working Session on Beyond SM

Contribution ID: 79

Type: **not specified**

## Heavy Lepton Physics in ATLAS

*Friday 16 July 2004 18:05 (20 minutes)*

**Primary author:** ALEXA, Calin (National Institute for Physics and Nuclear Engineering (IFIN-HH))

**Presenter:** ALEXA, Calin (National Institute for Physics and Nuclear Engineering (IFIN-HH))

**Session Classification:** Working Session on Beyond SM



Contribution ID: **80**

Type: **not specified**

## QCD at the Tevatron

*Friday 16 July 2004 15:45 (30 minutes)*

**Primary author:** , M. Zielinski (Rochester, USA)

**Presenter:** , M. Zielinski (Rochester, USA)

**Session Classification:** Working Session on SM II

Contribution ID: **81**

Type: **not specified**

# Measuring Gauge Boson Couplings in CMS

*Friday 16 July 2004 16:15 (20 minutes)*

**Primary author:** OH, Alexander (CERN)

**Presenter:** OH, Alexander (CERN)

**Session Classification:** Working Session on SM II

Contribution ID: **82**

Type: **not specified**

## Top at Tevatron

*Friday 16 July 2004 16:35 (25 minutes)*

**Primary author:** I. FLECK (PRESENTED BY M. ZIELINSKI) (University of Freiburg, Germany)

**Presenter:** I. FLECK (PRESENTED BY M. ZIELINSKI) (University of Freiburg, Germany)

**Session Classification:** Working Session on SM II

Contribution ID: **83**

Type: **not specified**

## Top Physics Studies in ATLAS

*Friday 16 July 2004 17:00 (20 minutes)*

**Primary author:** MONNIER, Emmanuel (Faculte des Sciences de Luminy)

**Presenter:** MONNIER, Emmanuel (Faculte des Sciences de Luminy)

**Session Classification:** Working Session on SM II

Contribution ID: **84**

Type: **not specified**

## Top quark physics at CMS

*Friday 16 July 2004 17:20 (20 minutes)*

**Primary author:** SLABOSPITSKY, Sergey (State Res.Center of Russian Feder. Inst.f.High Energy Phys. (IFVE))

**Presenter:** SLABOSPITSKY, Sergey (State Res.Center of Russian Feder. Inst.f.High Energy Phys. (IFVE))

**Session Classification:** Working Session on SM II

Contribution ID: 85

Type: **not specified**

# The Big Questions, Accelerators, Telescopes, the LHC and the Future

*Saturday 17 July 2004 09:00 (40 minutes)*

**Primary author:** , M. Turner (NSF, Arlington, USA)

**Presenter:** , M. Turner (NSF, Arlington, USA)

**Session Classification:** Plenary Session XI

Contribution ID: **86**

Type: **not specified**

## **LHC physics: the first year**

*Saturday 17 July 2004 09:40 (30 minutes)*

**Primary author:** Dr GIANOTTI, Fabiola (CERN)

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

**Session Classification:** Plenary Session XI

Contribution ID: 87

Type: **not specified**

## The First Year of LHC: Diffractive Physics

*Saturday 17 July 2004 10:10 (20 minutes)*

**Primary author:** Dr DEILE, MARIO (CERN, PH-TOT)

**Presenter:** Dr DEILE, MARIO (CERN, PH-TOT)

**Session Classification:** Plenary Session XI



Contribution ID: **88**

Type: **not specified**

## Particle Physics alongside LHC

*Saturday 17 July 2004 11:00 (35 minutes)*

**Primary author:** BLONDEL, Alain (Departement de Physique Nucleaire et Corpusculaire (DPNC))

**Presenter:** BLONDEL, Alain (Departement de Physique Nucleaire et Corpusculaire (DPNC))

**Session Classification:** Plenary Session XII

Contribution ID: **89**

Type: **not specified**

## Concluding Talk: Revolutions and Revelations

*Saturday 17 July 2004 11:35 (55 minutes)*

**Primary author:** , Ch. Quigg

**Presenter:** , Ch. Quigg

**Session Classification:** Plenary Session XII

Contribution ID: **90**

Type: **not specified**

## Physics at LHC 2005

*Saturday 17 July 2004 12:30 (5 minutes)*

**Primary author:** , G. Mitselmakher (University of Florida, Gainesville, USA)

**Presenter:** , G. Mitselmakher (University of Florida, Gainesville, USA)

**Session Classification:** Plenary Session XII

Contribution ID: **91**

Type: **not specified**

## Welfare address

*Saturday 17 July 2004 12:35 (5 minutes)*

**Primary author:** WULZ, Claudia (Institut fuer Hochenergiephysik (HEPHY))

**Presenter:** WULZ, Claudia (Institut fuer Hochenergiephysik (HEPHY))

**Session Classification:** Plenary Session XII

Contribution ID: **92**

Type: **not specified**

## Schloss Schoenbrunn

*Saturday 17 July 2004 14:00 (4 hours)*

**Session Classification:** Guided Tours

Contribution ID: **93**

Type: **not specified**

## Stift Heiligenkreuz

*Saturday 17 July 2004 14:00 (4 hours)*

**Session Classification:** Guided Tours

Contribution ID: 94

Type: **not specified**

## **Muon Identification and Combined Reconstruction Study in Higgs to Four Muons Physics Events with the ATLAS Detector at the LHC at CERN**

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** Dr LAGOURI, Theodota (ARISTOTLE UNIVERSITY OF THESSALONIKI, NUCLEAR PHYSICS LABORATORY)

**Presenter:** Dr LAGOURI, Theodota (ARISTOTLE UNIVERSITY OF THESSALONIKI, NUCLEAR PHYSICS LABORATORY)

**Session Classification:** Poster Session I

Contribution ID: 95

Type: **not specified**

## **Study of the observability of an MSSM Higgs boson in the four-b final state with the CMS detector**

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** GRAS, Philippe (DAPNIA)

**Presenter:** GRAS, Philippe (DAPNIA)

**Session Classification:** Poster Session I



Contribution ID: 96

Type: **not specified**

# The Drift Tube Track Finder Muon Trigger at the CMS Experiment

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Ignacio Jimenez Alfaro (Universidad Autonoma de Madrid, Spain)

**Presenter:** , Ignacio Jimenez Alfaro (Universidad Autonoma de Madrid, Spain)

**Session Classification:** Poster Session I

Contribution ID: 97

Type: **not specified**

# Large Extra Dimensions and the Minimal Length

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Sabine Hossenfelder (University of Arizona)

**Presenter:** , Sabine Hossenfelder (University of Arizona)

**Session Classification:** Poster Session I

Contribution ID: **98**

Type: **not specified**

## Extra Gauge Bosons - Search for $Z'$ at ATLAS

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Heidi Sandaker (University of Oslo, Norway)

**Presenter:** , Heidi Sandaker (University of Oslo, Norway)

**Session Classification:** Poster Session I

Contribution ID: 99

Type: **not specified**

## W mass measurement with ATLAS

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Carlos Marques (LIP Lisbon, Portugal)

**Presenter:** , Carlos Marques (LIP Lisbon, Portugal)

**Session Classification:** Poster Session I

Contribution ID: **100**

Type: **not specified**

# Top spin correlation in theory with large extra dimensions at LHC

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** ARAI, Masato (Unknown)

**Presenter:** ARAI, Masato (Unknown)

**Session Classification:** Poster Session I

Contribution ID: **101**

Type: **not specified**

## Evidence for Sigma Mesons in Lattice QCD

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Motoo Sekiguchi (Kokushikan University, Japan)

**Presenter:** , Motoo Sekiguchi (Kokushikan University, Japan)

**Session Classification:** Poster Session I

Contribution ID: **102**

Type: **not specified**

## **Distinguishing Higgs models in $H \rightarrow \tau \nu / H \rightarrow t b$**

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** PENARANDA RIVAS, Siannah (Unknown)

**Presenter:** PENARANDA RIVAS, Siannah (Unknown)

**Session Classification:** Poster Session I

Contribution ID: **103**

Type: **not specified**

## Cosmic Ray Studies with ALICE Detectors

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Arturo Fernandez Tellez (Autonomous University of Puebla, Mexico)

**Presenter:** , Arturo Fernandez Tellez (Autonomous University of Puebla, Mexico)

**Session Classification:** Poster Session I



Contribution ID: **104**

Type: **not specified**

## **LHC and the anomalous couplings of vector boson scattering**

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Qui-Shu Yan (KEK, Japan)

**Presenter:** , Qui-Shu Yan (KEK, Japan)

**Session Classification:** Poster Session I

Contribution ID: **105**

Type: **not specified**

## **SUSY Studies with Snowmass Point 5 mSUGRA Parameters**

*Wednesday 14 July 2004 10:30 (20 minutes)*

**Primary author:** , Iris Borjanovic (Institute of Physics, Belgrade, Serbia and Montenegro)

**Presenter:** , Iris Borjanovic (Institute of Physics, Belgrade, Serbia and Montenegro)

**Session Classification:** Poster Session I

Contribution ID: **106**

Type: **not specified**

## **Heavy Charged MSSM Higgs Bosons in the $H^{\pm}$ to $t\bar{b}$ Decay in CMS**

*Wednesday 14 July 2004 10:25 (20 minutes)*

**Primary author:** LOWETTE, Steven (Vrije Universiteit Brussel (VUB))

**Presenter:** LOWETTE, Steven (Vrije Universiteit Brussel (VUB))

**Session Classification:** Poster Session I