

# **First Results from the LHC and Their Physical Interpretation**



## **Report of Contributions**

Contribution ID: 12

Type: **presentation**

## Opening Address

*Tuesday 19 October 2010 09:00 (10 minutes)*

**Presenter:** TYURIN, Nikolai (Institute for High Energy Physics (IHEP))

**Session Classification:** Morning session

Contribution ID: 13

Type: **presentation**

## Status of the LHC Machine

*Tuesday 19 October 2010 09:10 (40 minutes)*

**Presenter:** VENTURINI DELSOLARO, Walter (CERN)

**Session Classification:** Morning session

**Track Classification:** Status and plans of LHC machine

Contribution ID: 14

Type: **presentation**

## **The CMS experiment: status, performance and selected results**

*Tuesday 19 October 2010 09:50 (40 minutes)*

**Presenter:** JEITLER, Manfred (Institut fuer Hochenergiephysik (HEPHY))

**Session Classification:** Morning session

**Track Classification:** Status and plans of LHC machine

Contribution ID: 15

Type: **not specified**

## Status of LHCb

*Tuesday 19 October 2010 15:00 (30 minutes)*

**Presenter:** BELYAEV, Ivan

**Session Classification:** Evening Session

**Track Classification:** Status and plans of LHC machine

Contribution ID: 16

Type: **presentation**

## **ATLAS Status, operation and performance**

*Tuesday 19 October 2010 10:30 (40 minutes)*

**Presenter:** SOLODKOV, Sanya (IHEP, Protvino)

**Session Classification:** Morning session

**Track Classification:** Status and plans of LHC machine

Contribution ID: 17

Type: **presentation**

## **CMS Silicon Strip Tracker Operation and Performance**

*Tuesday 19 October 2010 11:30 (30 minutes)*

**Presenter:** BOUDOUL, Gaelle (Institut de Physique Nucleaire de Lyon (IPNL))

**Session Classification:** Morning session

**Track Classification:** Status and performance of the experiments

Contribution ID: **18**

Type: **presentation**

## **CMS track reconstruction and performance during pp collisions at $\sqrt{s}=7$ TeV**

*Tuesday 19 October 2010 12:00 (30 minutes)*

**Presenter:** CASTELLO, Roberto (University of Torino & INFN)

**Session Classification:** Morning session

**Track Classification:** Status and performance of the experiments



Contribution ID: **19**

Type: **not specified**

## **Magnetic spectrometer based on the straw operated in vacuum environment**

*Tuesday 19 October 2010 13:00 (20 minutes)*

**Presenter:** POTREBENIKOV, Iouri (Joint Inst. for Nuclear Research (JINR))

**Session Classification:** Morning session

**Track Classification:** Status and performance of the experiments

Contribution ID: 20

Type: **presentation**

## W/Z Physics at ATLAS

*Tuesday 19 October 2010 16:10 (30 minutes)*

**Presenter:** GARCIA NAVARRO, Jose Enrique (Dept. de Phys. Nucl. et Corpuscul. (DPNC)-Universite de Geneve)

**Session Classification:** Evening Session

**Track Classification:** EW studies (W/Z productions)

Contribution ID: 21

Type: **presentation**

## W/Z physics at CMS

*Tuesday 19 October 2010 16:40 (30 minutes)*

**Presenter:** SANTAOLALLA CAMINO, Javier (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

**Session Classification:** Evening Session

**Track Classification:** EW studies (W/Z productions)

Contribution ID: 22

Type: **presentation**

## **Search for Scalar Leptoquarks Using Events Containing Two Leptons and Two Jets in CMS**

*Tuesday 19 October 2010 17:30 (30 minutes)*

**Presenter:** KIRSANOV, Mikhail (Institute for Nuclear Research (INR))

**Session Classification:** Evening Session

**Track Classification:** EW studies (W/Z productions)

Contribution ID: 23

Type: **presentation**

## First ALICE Results

*Tuesday 19 October 2010 15:30 (40 minutes)*

**Presenter:** SADOVSKY, Serguei

**Session Classification:** Evening Session

**Track Classification:** First searches

Contribution ID: 24

Type: **presentation**

# **Performance of the ATLAS Transition Radiation Tracker with Cosmic Rays and First High Energy Collisions at LHC**

*Tuesday 19 October 2010 12:30 (30 minutes)*

**Co-authors:** BOCCI, Andrea (CERN); DITTUS, Fido (CERN)

**Presenter:** MASHINISTOV, Ruslan (Moscow Physical Engineering Institute (MePhI))

**Session Classification:** Morning session

**Track Classification:** First searches

Contribution ID: 25

Type: **presentation**

# First searches for physics beyond the Standard Model at CMS

*Tuesday 19 October 2010 18:00 (30 minutes)*

**Presenter:** DIEZ PARDOS, Carmen (Centro de Investigaciones Energ. Medioambientales y Tecn. - (CIE))

**Session Classification:** Evening Session

**Track Classification:** First searches

Contribution ID: 26

Type: **presentation**

## Early searches for new physics with the ATLAS detector

*Tuesday 19 October 2010 18:30 (30 minutes)*

**Presenter:** SEDYKH, Eugene (High Energy Physics Division (HEPD)-Theory Division-Petersburg N)

**Session Classification:** Evening Session

**Track Classification:** First searches



Contribution ID: 28

Type: **presentation**

## SM Higgs searches in the early ATLAS data

*Wednesday 20 October 2010 09:30 (30 minutes)*

**Presenter:** TSUKERMAN, Ilya (ITEP, Moscow)

**Session Classification:** Morning Session

**Track Classification:** First searches

Contribution ID: 29

Type: **presentation**

## Prospects for physics with 1 fb<sup>-1</sup> at CMS

*Wednesday 20 October 2010 10:00 (30 minutes)*

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

**Session Classification:** Morning Session

**Track Classification:** Potential of the experiments for 1 fb<sup>-1</sup> at 3.5 × 3.5 TeV

Contribution ID: **30**

Type: **presentation**

## Forward physics at CMS

*Wednesday 20 October 2010 10:30 (30 minutes)*

**Presenter:** SOBOL, Andrei (Institute for High Energy Physics (IHEP)-Unknown-Unknown)

**Session Classification:** Morning Session

**Track Classification:** Forward physics

Contribution ID: 31

Type: **presentation**

## **Inclusive production of Ks and Lambda at $\sqrt{s}=0.9$ and 7 TeV**

*Wednesday 20 October 2010 11:00 (30 minutes)*

**Presenter:** SHAPKIN, Mikhail

**Session Classification:** Morning Session

**Track Classification:** First searches

Contribution ID: 33

Type: **presentation**

## **Russian Counterpart of LHC — Accelerator Complex U70 of IHEP**

*Wednesday 20 October 2010 11:50 (30 minutes)*

**Presenter:** Prof. IVANOV, Sergey (Institute for High Energy Physics (IHEP))

**Session Classification:** Morning Session

**Track Classification:** Special invited

Contribution ID: 35

Type: **presentation**

## **Neutral meson spectra measurements in pp collisions at 7 TeV with ALICE**

*Thursday 21 October 2010 09:30 (30 minutes)*

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

**Session Classification:** Morning Session

**Track Classification:** Potential of the experiments for 1 fb<sup>-1</sup> at 3.5 × 3.5 TeV

Contribution ID: 36

Type: **presentation**

## Non-perturbative QCD measurements in ATLAS

*Thursday 21 October 2010 10:00 (30 minutes)*

**Presenter:** RODA, Chiara (INFN Sezione di Pisa (INFN))

**Session Classification:** Morning Session

**Track Classification:** Potential of the experiments for 1 fb<sup>-1</sup> at 3.5 × 3.5 TeV

Contribution ID: 37

Type: **presentation**

## ATLAS results on QCD

*Thursday 21 October 2010 10:30 (30 minutes)*

**Presenter:** KOROLKOV, Ilya (IFAE-Barcelona)

**Session Classification:** Morning Session

**Track Classification:** QCD studies



Contribution ID: 38

Type: **presentation**

# Photon physics in ALICE

*Thursday 21 October 2010 11:20 (30 minutes)*

**Presenter:** PERESSOUNKO, Dmitri (RRC "Kurchatov institute")

**Session Classification:** Morning Session

**Track Classification:** QCD studies

Contribution ID: 39

Type: **presentation**

## J/Psi Physics at ATLAS

*Thursday 21 October 2010 11:50 (30 minutes)*

**Presenter:** Dr SPAGNOLO, Stefania (INFN Lecce and Dip. Fisica, Univ. del Salento)

**Session Classification:** Morning Session

**Track Classification:** QCD studies

Contribution ID: 40

Type: **presentation**

## Expected b-quark production at the LHC

*Thursday 21 October 2010 12:20 (30 minutes)*

**Presenter:** SMIRNOVA, Lidia

**Session Classification:** Morning Session

**Track Classification:** B - physics

Contribution ID: 41

Type: **presentation**

## Top quark physics at CMS

*Thursday 21 October 2010 14:30 (30 minutes)*

**Presenter:** SCODELLARO, Luca (Unknown)

**Session Classification:** Evening Session

**Track Classification:** QCD studies

Contribution ID: 42

Type: **presentation**

# Measurement of D-mesons production at LHC with ATLAS

*Thursday 21 October 2010 15:00 (30 minutes)*

**Presenter:** GLADILIN, Leonid (Moscow State University)

**Session Classification:** Evening Session

**Track Classification:** QCD studies

Contribution ID: 43

Type: **presentation**

## Exclusive Bc-meson decays at LHC

*Thursday 21 October 2010 15:30 (30 minutes)*

**Authors:** LUCHINSKY, Alexey (Institute for High Energy Physics, Protvino, Russia); LIKHODED, Anatoli (State Res.Center of Russian Feder. Inst.f.High Energy Phys. (IFVE))

**Presenter:** LUCHINSKY, Alexey (Institute for High Energy Physics, Protvino, Russia)

**Session Classification:** Evening Session

**Track Classification:** B - physics

Contribution ID: 44

Type: **presentation**

# Collective effects in multiparticle production at the LHC

*Thursday 21 October 2010 16:00 (30 minutes)*

**Co-author:** TYURIN, Nikolai (Institute for High Energy Physics (IHEP))

**Presenter:** Dr TROSHIN, Sergey (IHEP, Protvino, Russia)

**Session Classification:** Evening Session

**Track Classification:** First searches

Contribution ID: 45

Type: **presentation**

## **LHC Machine and Detectors Status**

*Thursday 21 October 2010 16:50 (30 minutes)*

**Presenter:** Prof. OBRAZTSOV, Vladimir (Institute for High Energy Physics (IHEP)-Unknown-Unknown)

**Session Classification:** Evening Session



Contribution ID: 46

Type: **presentation**

## **On Early Physics Results from the LHC: Heavy Quarks, Gauge Bosons and Some Relic Stuff**

*Thursday 21 October 2010 17:20 (30 minutes)*

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

**Session Classification:** Evening Session

Contribution ID: 47

Type: **presentation**

## **Is the LHC to Trigger a Scientific Revolution?**

*Thursday 21 October 2010 17:50 (30 minutes)*

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

**Session Classification:** Evening Session

Contribution ID: 48

Type: **presentation**

## Closing Address

*Thursday 21 October 2010 18:20 (10 minutes)*

**Presenter:** TYURIN, Nikolai (Institute for High Energy Physics (IHEP))

**Session Classification:** Evening Session