

Winter Workshop on Recent QCD Advances at the LHC

ÉCOLE DE PHYSIQUE
des HOUCHES



Winter Workshop on Recent QCD Advances at the LHC

Les Houches, February 13th - 18th, 2011

Report of Contributions

Contribution ID: 0

Type: **not specified**

Welcome

Monday, 14 February 2011 08:50 (10 minutes)

Presenters: SUIRE, Christophe (Inst. Nat. Phys. Nucl. & Particules (IN2P3)-Universite de Paris-); D'ENTERRIA, David (CERN); GELIS, Francois

Contribution ID: 1

Type: **not specified**

PYTHIA 6 and 8 versus p-p data at the LHC.

Monday, 14 February 2011 09:00 (20 minutes)

Presenter: SKANDS, Peter (CERN)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 2

Type: **not specified**

HERWIG++ versus p-p data at the LHC.

Monday, 14 February 2011 09:30 (20 minutes)

Presenter: SIODMOK, Andrzej Konrad (Karlsruhe Institute of Technology (KIT))

Track Classification: QCD in the non-perturbative regime

Contribution ID: 3

Type: **not specified**

SHERPA versus p-p data at the LHC.

Monday, 14 February 2011 10:00 (20 minutes)

Presenter: HOETH, Hendrik (Durham University)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 4

Type: **not specified**

PDF dependence of benchmark cross sections in p-p collisions at the 7 TeV LHC

Tuesday, 15 February 2011 09:00 (20 minutes)

Presenter: WATT, Graeme

Track Classification: PDFs, low-x QCD

Contribution ID: 5

Type: **not specified**

CTEQ/CT10 PDFs

Tuesday, 15 February 2011 09:30 (20 minutes)

Presenter: GUZZI, Marco (Southern Methodist University)

Track Classification: PDFs, low-x QCD

Contribution ID: 6

Type: **not specified**

HERA PDFs

Tuesday, 15 February 2011 10:00 (20 minutes)

Presenter: SARKAR, amanda

Track Classification: PDFs, low-x QCD

Contribution ID: 7

Type: **not specified**

Nuclear PDFs

Tuesday, 15 February 2011 11:00 (20 minutes)

Presenter: PAUKKUNEN, Hannu (Jyväskylä University, Finland)

Track Classification: PDFs, low-x QCD

Contribution ID: 8

Type: **not specified**

PDF constraints at low-x and jet studies in the forward region with LHCb

Tuesday, 15 February 2011 11:30 (20 minutes)

Presenter: KUCHARCZYK, Marcin (Henryk Niewodniczanski Institute of Nuclear Physics PAN)

Track Classification: PDFs, low-x QCD

Contribution ID: 9

Type: **not specified**

Constraints on Parton Distribution Functions from p-p and Pb-Pb collisions in CMS

Tuesday, 15 February 2011 12:00 (20 minutes)

Presenter: GOUZEVITCH, Maxime (Conseil Europeen Recherche Nucl. (CERN)-Unknown-Unknown)

Track Classification: PDFs, low-x QCD

Contribution ID: **10**

Type: **not specified**

Multiparton evolution: recombination.

Tuesday, 15 February 2011 17:15 (20 minutes)

Presenter: BARTELS, Jochen

Track Classification: PDFs, low-x QCD

Contribution ID: 11

Type: **not specified**

CASCADE versus p-p data at the LHC

Monday, 14 February 2011 11:00 (20 minutes)

Presenter: JUNG, Hannes (DESY)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 12

Type: **not specified**

Theoretical modeling of PbPb minimum bias data

Tuesday, 15 February 2011 17:45 (20 minutes)

Presenters: LOPEZ ALBACETE, Javier (IPhT-CEA); LOPEZ ALBACETE, Javier (Universidad Nacional Cordoba)

Track Classification: PDFs, low-x QCD

Contribution ID: 13

Type: **not specified**

AAMQS fits

Tuesday, 15 February 2011 18:15 (20 minutes)

Presenter: TEIXEIRA DE ALMEIDA MILHANO, Guilherme (Instituto Superior Tecnico (IST)-Unknown-Unknown)

Track Classification: PDFs, low-x QCD

Contribution ID: 14

Type: **not specified**

Small-x angular decorrelation

Tuesday, 15 February 2011 18:45 (20 minutes)

Presenter: MARQUET, Cyrille

Track Classification: PDFs, low-x QCD

Contribution ID: 15

Type: **not specified**

Heavy-quark production in p-p at the LHC

Thursday, 17 February 2011 09:00 (20 minutes)

Presenter: SCHIENBEIN, Ingo (Universite Joseph Fourier)

Track Classification: Perturbative QCD (II)

Contribution ID: 16

Type: **not specified**

Quarkonia production in p-p at the LHC

Thursday, 17 February 2011 09:30 (20 minutes)

Presenter: LANSBERG, Jean-Philippe (Ecole polytechnique)

Track Classification: Perturbative QCD (II)

Contribution ID: 17

Type: **not specified**

Heavy quarks production measurements with LHCb experiment

Thursday, 17 February 2011 10:00 (20 minutes)

Presenter: BRITSCH, Markward (Max-Planck-Institut fuer Kernphysik (MPI)-Unknown-Unknown)

Track Classification: Perturbative QCD (II)

Contribution ID: 18

Type: **not specified**

Quarkonia and Heavy-Quark production in p-p collisions (CMS Collab.)

Thursday, 17 February 2011 11:05 (20 minutes)

Presenter: DORIGO, Tommaso (INFN, Sezione di Padova)

Track Classification: Perturbative QCD (II)

Contribution ID: 19

Type: **not specified**

Prompt J/ψ and $b \rightarrow J/\psi X$ production in pp collisions at $\sqrt{s} = 7\text{TeV}$ (LHCb Collab.)

Thursday, 17 February 2011 11:35 (20 minutes)

Presenter: DE CAPUA, Stefano (Universita degli Studi di Roma Tor Vergata)

Track Classification: Perturbative QCD (II)

Contribution ID: 20

Type: **not specified**

Heavy Quark and quarkonia dynamics in the QGP

Thursday, 17 February 2011 17:15 (20 minutes)

Presenter: GRECO, Vincenzo

Track Classification: Perturbative QCD (II)

Contribution ID: 21

Type: **not specified**

Heavy-quarks in p-p & Pb-Pb collisions (ALICE Collab.)

Thursday, 17 February 2011 17:45 (20 minutes)

Presenter: PRINO, Francesco (Istituto Nazionale di Fisica Nucleare (INFN))

Track Classification: Perturbative QCD (II)

Contribution ID: 22

Type: **not specified**

Heavy flavour physics in ATLAS (from p-p and Pb-Pb collisions)

Thursday, 17 February 2011 18:15 (20 minutes)

Presenter: PANIKASHVILI, Natalia (Department of Physics)

Track Classification: Perturbative QCD (II)

Contribution ID: 23

Type: **not specified**

Quarkonia in p-p & Pb-Pb collisions (ALICE Collab.)

Thursday, 17 February 2011 18:45 (30 minutes)

Presenter: PARK, WJ (Gesellschaft fuer Schwerionen forschung mbH (GSI)-Unknown-Unknow)

Track Classification: Perturbative QCD (II)

Contribution ID: 24

Type: **not specified**

Soft QCD physics in p-p collisions at ATLAS

Monday, 14 February 2011 11:30 (20 minutes)

Presenter: CAFORIO, Davide (Universita & INFN, Bologna-Unknown-Unknown)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 25

Type: **not specified**

General properties of pp collisions with ALICE.

Monday, 14 February 2011 14:00 (20 minutes)

Presenter: POGHOSYAN, Martin (Universita & INFN, Torino)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 26

Type: **not specified**

Studies on minimum bias, diffraction and UE in p-p (LHCb Collab.)

Monday, 14 February 2011 14:30 (20 minutes)

Presenter: AQUINES, Osvaldo (Max-Planck-Institut fuer Kernphysik (MPI)-Unknown-Unknown)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 27

Type: **not specified**

Diffractive, exclusive and elastic scattering at the LHC.

Monday, 14 February 2011 15:00 (20 minutes)

Presenter: DECHAMBRE, Alice (Universite de Liege)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 28

Type: **not specified**

LHCf results on forward particle production at the LHC.

Monday, 14 February 2011 15:30 (20 minutes)

Presenter: MITSUKA, Gaku

Track Classification: QCD in the non-perturbative regime

Contribution ID: 29

Type: **not specified**

TOTEM – Cancelled

Monday, 14 February 2011 16:30 (20 minutes)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 30

Type: **not specified**

Particle production (multiplicity, spectra) in Pb-Pb collisions (ALICE Collab.)

Monday, 14 February 2011 17:30 (20 minutes)

Presenter: Dr TOIA, Alberica (Organisation européenne pour la recherche nucléaire (CERN))

Track Classification: QCD in the non-perturbative regime

Contribution ID: 31

Type: **not specified**

Two-particle correlations in p-p and PbPb

Monday, 14 February 2011 18:00 (20 minutes)

Presenter: JALILIAN-MARIAN, Jamal

Track Classification: QCD in the non-perturbative regime

Contribution ID: 32

Type: **not specified**

Vector-Boson and Jets at NLO with BlackHat

Wednesday, 16 February 2011 09:00 (20 minutes)

Presenter: KOSOWER, David

Track Classification: Perturbative QCD (I)

Contribution ID: 33

Type: **not specified**

Photon production at the LHC.

Wednesday, 16 February 2011 09:30 (20 minutes)

Presenter: GUILLET, Jean-Philippe

Track Classification: Perturbative QCD (I)

Contribution ID: 34

Type: **not specified**

Scaling properties of large p_T hadron production at hadronic colliders.

Wednesday, 16 February 2011 10:00 (20 minutes)

Presenter: ARLEO, Francois (lapp-Laboratoire d'Annecy-le-Vieux de Physique des Particules-In)

Track Classification: Perturbative QCD (I)

Contribution ID: 35

Type: **not specified**

Prompt photon results in ATLAS.

Wednesday, 16 February 2011 11:00 (20 minutes)

Presenter: HANCE, Mike (University of Pennsylvania)

Track Classification: Perturbative QCD (I)

Contribution ID: 36

Type: **not specified**

Prompt-Photon production in p-p collisions (CMS Collab.)

Wednesday, 16 February 2011 11:30 (20 minutes)

Presenter: KOLBERG, Ted Ritchie (Department of Physics-College of Science-University of Notre Dam)

Track Classification: Perturbative QCD (I)

Contribution ID: 37

Type: **not specified**

Measurement of Hadronic Event Shapes with the CMS detector at the LHC.

Wednesday, 16 February 2011 14:00 (20 minutes)

Presenter: WEBER, Matthias Artur (Eidgenossische Tech. Hochschule Zuerich (ETHZ))

Track Classification: Perturbative QCD (I)

Contribution ID: **38**

Type: **not specified**

Jet physics in p-p collisions at ATLAS

Wednesday, 16 February 2011 14:30 (20 minutes)

Presenter: DELSART, Pierre-Antoine (LPSC Grenoble)

Track Classification: Perturbative QCD (I)

Contribution ID: 39

Type: **not specified**

Jets & high-pT Hadron Production in p-p collisions (CMS Collab.)

Wednesday, 16 February 2011 15:00 (20 minutes)

Presenter: HINZMANN, Andreas (RWTH Aachen University, III. Physikalisches Institut A)

Track Classification: Perturbative QCD (I)

Contribution ID: 40

Type: **not specified**

W/Z production in p-p collisions (ATLAS Collab.)

Wednesday, 16 February 2011 15:30 (20 minutes)

Presenter: VINCTER, Manuella (Carleton University)

Track Classification: Perturbative QCD (I)

Contribution ID: 41

Type: **not specified**

Jets at the LHC (both p-p and PbPb).

Wednesday, 16 February 2011 16:30 (20 minutes)

Presenter: SOYEZ, Gregory

Track Classification: Perturbative QCD (I)

Contribution ID: 42

Type: **not specified**

Jets, high-pT hadrons & prompt-photons in p-p & Pb-Pb collisions (ALICE Collab.)

Wednesday, 16 February 2011 17:00 (20 minutes)

Presenter: BUSCH, Oliver (Gesellschaft fuer Schwerionenforschung mbH (GSI))

Track Classification: Perturbative QCD (I)

Contribution ID: 43

Type: **not specified**

Jet quenching in Pb-Pb collisions (CMS Collab.)

Wednesday, 16 February 2011 17:30 (20 minutes)

Presenter: NGUYEN, Matthew

Track Classification: Perturbative QCD (I)

Contribution ID: 44

Type: **not specified**

Jet production in Pb-Pb collisions in ATLAS.

Wednesday, 16 February 2011 18:00 (20 minutes)

Presenter: RYBAR, Martin (Faculty of Mathematics and Physics-Charles University-Unknown)

Track Classification: Perturbative QCD (I)

Contribution ID: 45

Type: **not specified**

Cosmic-rays MCs versus p-p and Pb-Pb data at the LHC.

Friday, 18 February 2011 09:00 (20 minutes)

Presenter: ULRICH, Ralf Matthias (Pennsylvania State University)

Track Classification: QCD in the non-perturbative regime

Contribution ID: 46

Type: **not specified**

Top quark production at the LHC.

Friday, 18 February 2011 09:30 (20 minutes)

Presenter: PECJAK, Ben (DESY)

Track Classification: Perturbative QCD (II)

Contribution ID: 47

Type: **not specified**

J/ ψ yields and observation of Z production in lead-lead collisions in ATLAS.

Friday, 18 February 2011 11:00 (20 minutes)

Presenter: VAN ELDIK, Niels (University of Massachusetts)

Track Classification: Perturbative QCD (II)

Contribution ID: 48

Type: **not specified**

Quarkonia and Z boson production in Pb-Pb collisions (CMS Collab.)

Friday, 18 February 2011 10:30 (20 minutes)

Presenter: SILVESTRE, Catherine (Los Alamos National Laboratory (LANL)-Unknown-Unknown)

Track Classification: Perturbative QCD (II)

Contribution ID: 49

Type: **not specified**

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Presenter: SUIRE, Christophe (Institut National de Physique Nucleaire... (IN3P3) - Universite)

Contribution ID: 50

Type: **not specified**

Discussion

Friday, 18 February 2011 11:30 (55 minutes)