

Workshop on photon-induced collisions at the LHC

Workshop on Photon-induced Collisions at the LHC

CERN, June 2-4, 2014

This workshop will discuss experimental and theoretical results on photon-photon, photon-proton and photon-nucleus collisions at hadron colliders, organize plans for the forthcoming LHC runs, and study future collider opportunities.

Web site:

<http://indico.cern.ch/event/UFC-LHC14>

Organizing committee:

D. D'Enterria (CERN)
S. Klein (LBNL)
J. Nystrand (University of Bergen)
E. Scapparone (INFN Bologna)
M. Strikman (Penn State)



Report of Contributions

Workshop on ... / Report of Contributions

TBD

Contribution ID: 0

Type: **not specified**

TBD

Contribution ID: 1

Type: **not specified**

Photoproduction of charged mesons in UPCs

Tuesday 3 June 2014 09:00 (30 minutes)

Author: Prof. KLEIN, Spencer (LBNL)

Presenter: Prof. KLEIN, Spencer (LBNL)

Contribution ID: 2

Type: **not specified**

Observations of bound-free pair production and other photon-induced effects in the LHC and plans to mitigate their impact on future performance

Wednesday 4 June 2014 12:00 (30 minutes)

Author: Dr JOWETT, John (CERN)

Presenter: Dr JOWETT, John (CERN)

Contribution ID: 3

Type: **not specified**

Multiparton interactions in gamma p (A) collisions

Tuesday 3 June 2014 11:00 (30 minutes)

Author: BLOK, Boris (Physics Department)

Presenter: BLOK, Boris (Physics Department)

Contribution ID: 4

Type: **not specified**

Studies of quartic gamma gamma WW and gamma gamma ZZ anomalous couplings at the LHC

Tuesday 3 June 2014 15:00 (30 minutes)

Author: ROYON, Christophe (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Presenter: ROYON, Christophe (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Workshop on ... / Report of Contributions

TBD

Contribution ID: 5

Type: **not specified**

TBD

Contribution ID: 6

Type: **not specified**

Results (and future prospects) of the CMS experiment in photon-induced collisions in p-p collisions

Monday 2 June 2014 14:40 (30 minutes)

Author: Mr FORTHOMME, Laurent (Universite Catholique de Louvain (UCL) (BE))

Presenter: Mr FORTHOMME, Laurent (Universite Catholique de Louvain (UCL) (BE))

Contribution ID: 7

Type: **not specified**

Recent Results from Ultraperipheral Collisions at STAR

Monday 2 June 2014 11:40 (30 minutes)

Author: SEGER, Janet (Creighton University)

Presenter: SEGER, Janet (Creighton University)

Contribution ID: 8

Type: **not specified**

Results (and future prospects) of the CMS experiment in photon-induced collisions in p-Pb/Pb-Pb collisions.

Monday 2 June 2014 15:10 (30 minutes)

Author: KATKOV, Igor (KIT - Karlsruhe Institute of Technology (DE))

Presenter: KATKOV, Igor (KIT - Karlsruhe Institute of Technology (DE))

Workshop on ... / Report of Contributions

TBD

Contribution ID: 9

Type: **not specified**

TBD

Contribution ID: **10**

Type: **not specified**

Perspectives for UPC at the LHC Run2

Wednesday 4 June 2014 09:00 (30 minutes)

Author: SCAPPARONE, Eugenio (INFN-Bologna(IT))

Presenter: SCAPPARONE, Eugenio (INFN-Bologna(IT))

Contribution ID: **11**

Type: **not specified**

TBD

Contribution ID: 12

Type: **not specified**

TBD

Contribution ID: **13**

Type: **not specified**

TBD

Contribution ID: 14

Type: **not specified**

Two muon and heavy quark pair production in two-photon collisions at LHC

Wednesday 4 June 2014 14:00 (30 minutes)

Author: DA SILVA, Wilfrid (Laboratoire de Physique Theorique et Hautes Energies (LPTHE))

Presenter: DA SILVA, Wilfrid (Laboratoire de Physique Theorique et Hautes Energies (LPTHE))

Contribution ID: **16**

Type: **not specified**

TBD

Contribution ID: 17

Type: **not specified**

TBD

Contribution ID: **18**

Type: **not specified**

Production of two and four pions in UPCs

Wednesday 4 June 2014 10:00 (30 minutes)

Author: SZCZUREK, Antoni (Institute of Nuclear Physics)

Presenter: SZCZUREK, Antoni (Institute of Nuclear Physics)

Contribution ID: **19**

Type: **not specified**

TBD

Contribution ID: 20

Type: **not specified**

Probing four photon couplings with proton tagging at the LHC

Tuesday 3 June 2014 14:30 (30 minutes)

Author: SAIMPERT, Matthias (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Presenter: SAIMPERT, Matthias (CEA/IRFU,Centre d'etude de Saclay Gif-sur-Yvette (FR))

Contribution ID: 21

Type: **not specified**

talk

Contribution ID: 22

Type: **not specified**

TBD

Contribution ID: 23

Type: **not specified**

Photon-photon and photo-nuclear collisions at CERN

Wednesday 4 June 2014 11:00 (30 minutes)

Author: BERTULANI, carlos (Texas A&M University-Commecer)

Presenter: BERTULANI, carlos (Texas A&M University-Commecer)

Contribution ID: 24

Type: **not specified**

TBD

Contribution ID: 25

Type: **not specified**

TBD

Contribution ID: 26

Type: **not specified**

Incoherent and coherent vector meson production in ultraperipheral heavy ion collisions from the Color Glass Condensate

Tuesday 3 June 2014 11:30 (30 minutes)

Author: Mr MÄNTYSAARI, Heikki (University of Jyväskylä)

Presenter: Mr MÄNTYSAARI, Heikki (University of Jyväskylä)

Contribution ID: 27

Type: **not specified**

TBD

Contribution ID: 28

Type: **not specified**

J/psi photoproduction in ultra-peripheral p-Pb collisions with the ALICE detector

Monday 2 June 2014 09:40 (30 minutes)

Author: ADAM, Jaroslav (Czech Technical University (CZ))

Presenter: ADAM, Jaroslav (Czech Technical University (CZ))

Contribution ID: 29

Type: **not specified**

Novel directions in UPC QCD studies

Tuesday 3 June 2014 16:30 (30 minutes)

Authors: STRIKMAN, Mark; STRIKMAN, Mark (Penn State University); STRIKMAN, Mark (Pennsylvania State University (US))

Presenters: STRIKMAN, Mark; STRIKMAN, Mark (Penn State University); STRIKMAN, Mark (Pennsylvania State University (US))

Contribution ID: 30

Type: **not specified**

Towards Exclusive Heavy Vector Meson Production at NLO

Monday 2 June 2014 12:10 (30 minutes)

Author: JONES, Stephen (Liverpool University)

Presenter: JONES, Stephen (Liverpool University)

Contribution ID: **31**

Type: **not specified**

Workshop introduction

Monday 2 June 2014 09:30 (10 minutes)

Presenters: D'ENTERRIA, David (CERN); SCAPPARONE, Eugenio (INFN-Bologna(IT)); NYS-TRAND, Joakim (University of Bergen (NO)); STRIKMAN, Mark

Contribution ID: 32

Type: **not specified**

Timelike DVCS in Ultrapерipheral Collisions

Monday 2 June 2014 14:10 (30 minutes)

Author: WAGNER, Jakub (Institute for Nuclear Studies)

Presenter: WAGNER, Jakub (Institute for Nuclear Studies)

Contribution ID: 33

Type: **not specified**

Ultra-peripheral Collisions with the PHENIX detector

Monday 2 June 2014 11:10 (30 minutes)

Author: CHIU, Mickey (Brookhaven National Lab)

Presenter: CHIU, Mickey (Brookhaven National Lab)

Contribution ID: 34

Type: **not specified**

LHCb results and prospects in central exclusive and photon induced collisions in p-p and p-Pb collisions

Monday 2 June 2014 10:10 (30 minutes)

Author: COLLINS, Paula (CERN)

Presenter: COLLINS, Paula (CERN)

Contribution ID: 35

Type: **not specified**

TBD

Contribution ID: **36**

Type: **not specified**

talk

Contribution ID: 37

Type: **not specified**

TBD

Contribution ID: **38**

Type: **not specified**

TBD

Contribution ID: **39**

Type: **not specified**

TBD

Contribution ID: **40**

Type: **not specified**

TBD

Contribution ID: 41

Type: **not specified**

talk

Contribution ID: 42

Type: **not specified**

Photoproduction of jets

Tuesday 3 June 2014 10:00 (30 minutes)

Author: KLASSEN, Michael

Presenter: KLASSEN, Michael

Contribution ID: 43

Type: **not specified**

Electromagnetic fragmentation of nuclei: recent news and future plans

Tuesday 3 June 2014 09:30 (30 minutes)

Authors: Dr PSHENICHNOV, Igor (Frankfurt Institute for Advanced Studies, Johann Wolfgang Goethe University); PSHENICHNOV, Igor (Russian Academy of Sciences (RU))

Presenters: Dr PSHENICHNOV, Igor (Frankfurt Institute for Advanced Studies, Johann Wolfgang Goethe University); PSHENICHNOV, Igor (Russian Academy of Sciences (RU))

Contribution ID: 44

Type: **not specified**

Probing QCD at low and high energies in photon - hadron interactions at LHC

Monday 2 June 2014 16:10 (30 minutes)

Presenter: GONCALVES, Victor (Universidade Federal de Pelotas)

Contribution ID: 45

Type: **not specified**

Photoproduction of the J/Psi and spin effects in hadron hadron collisions at RHIC

Presenter: SCHMIDKE, William (B)

Contribution ID: 46

Type: **not specified**

Leading twist nuclear shadowing in nuclear parton distributions and J/psi photoproduction

Monday 2 June 2014 16:40 (30 minutes)

Presenter: GUZEY, Vadim (PNPI / Gatchina)

Contribution ID: 47

Type: **not specified**

Results (and future prospects) of the ALICE experiment in photon-induced collisions in Pb-Pb collisions

Monday 2 June 2014 17:10 (30 minutes)

Presenter: MAYER, Christoph (Polish Academy of Sciences (PL))

Contribution ID: 48

Type: **not specified**

Some UPC topics in general and in STARLIGHT in particular

Tuesday 3 June 2014 12:00 (30 minutes)

Presenter: NYSTRAND, Joakim (University of Bergen (NO))

Contribution ID: 49

Type: **not specified**

Perspectives for new studies of high energy photon interactions at the LHC

Wednesday 4 June 2014 14:30 (30 minutes)

Presenter: PIOTRZKOWSKI, Krzysztof (Universite Catholique de Louvain (UCL) (BE))

Contribution ID: 50

Type: **not specified**

Observing light-by-light scattering at the LHC

Tuesday 3 June 2014 14:00 (30 minutes)

Presenters: D'ENTERRIA, David (CERN); D'ENTERRIA, David (CERN)

Contribution ID: 51

Type: **not specified**

Jet production and studies of nucleon/nuclear PDFs

Wednesday 4 June 2014 16:00 (30 minutes)

Presenters: VOGT, Ramona (University of California at Davis); VOGT, Ramona (LLNL)

Contribution ID: 52

Type: **not specified**

Perspectives for ultra-peripheral collisions at LHC fixed-target energies

Wednesday 4 June 2014 09:30 (30 minutes)

Presenters: LANSBERG, Jean-Philippe (Ecole Polytechnique); LANSBERG, Jean-Philippe (Ecole polytechnique); LANSBERG, Jean-Philippe (IPN Orsay, Paris Sud U. / IN2P3-CNRS)

Contribution ID: 53

Type: **not specified**

pQCD theory of single inclusive hadron production

Presenters: STRATMANN, Marco (Brookhaven National Laboratory); STRATMANN, Marco (Brookhaven National Laboratory)

Contribution ID: 54

Type: **not specified**

Saturation physics in ep/eA colliders and in UPC

Tuesday 3 June 2014 16:00 (30 minutes)

Presenters: STASTO, Anna (Penn State); STASTO, Anna; STASTO, Anna (Pennsylvania State University (US))

Contribution ID: 55

Type: **not specified**

$\gamma^*\gamma^*$ Cross Section at NLO and Properties of the BFKL Evolution at Higher Orders

Presenter: Dr CHIRILLI, Giovanni Antonio (The Ohio State University)

Contribution ID: 56

Type: **not specified**

$\gamma^* \gamma^*$ Cross Section at NLO and Properties of the BFKL Evolution at Higher Orders

Wednesday 4 June 2014 11:30 (30 minutes)

Presenter: CHIRILLI, Giovanni Antonio (The Ohio State University)

Contribution ID: 57

Type: **not specified**

Discussion on UPC plans for LHC Run-2

Wednesday 4 June 2014 15:00 (25 minutes)

Contribution ID: 58

Type: **not specified**

Workshop in Kansas, 3-6 September

Wednesday 4 June 2014 15:25 (5 minutes)

Presenter: TAPIA TAKAKI, Daniel (Universite de Paris-Sud 11 (FR))