

Low x 2017



Report of Contributions

Contribution ID: 1

Type: **not specified**

Registration

Monday, 12 June 2017 18:00 (1h 30m)

Contribution ID: 2

Type: **not specified**

Registration

Tuesday, 13 June 2017 08:00 (30 minutes)

Contribution ID: 3

Type: **not specified**

Welcome

Tuesday, 13 June 2017 08:30 (10 minutes)

Contribution ID: 4

Type: **not specified**

Parton distributions/phenomenology at low x

Tuesday, 13 June 2017 08:40 (25 minutes)

Presenter: SARKAR, Amanda (University of Oxford (GB))

Session Classification: PDFs, QCD fits, low x session I

Contribution ID: 5

Type: **not specified**

Does Nature Know about Perturbation Theory? A Study of HERA Deep Inelastic Scattering Data at Low Q^2

Tuesday, 13 June 2017 09:05 (20 minutes)

Presenter: MYRONENKO, Volodymyr (DESY)

Session Classification: PDFs, QCD fits, low x session I

Contribution ID: 6

Type: **not specified**

Higher-twist corrections to gluon TMD factorization

Tuesday, 13 June 2017 09:25 (20 minutes)

Presenter: BALITSKY, Ian (JLab/ODU)

Session Classification: PDFs, QCD fits, low x session I

Contribution ID: 7

Type: **not specified**

CFT at Strong Coupling: From DIS to Inclusive Production

Tuesday, 13 June 2017 09:45 (20 minutes)

Presenter: RABEN, Timothy

Session Classification: PDFs, QCD fits, low x session I

Contribution ID: 8

Type: **not specified**

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Tuesday, 13 June 2017 10:35 (20 minutes)

Presenter: CHIRILLI, Giovanni Antonio (University of Regensburg)

Session Classification: PDFs, QCD fits, low x session II

Contribution ID: 9

Type: **not specified**

XFitter

Tuesday, 13 June 2017 10:55 (20 minutes)

Presenter: SARKAR, Amanda (University of Oxford (GB))

Session Classification: PDFs, QCD fits, low x session II

Contribution ID: 10

Type: **not specified**

High precision measurements of the differential W and Z boson cross section and Z/top pair cross section ratios in ATLAS

Tuesday, 13 June 2017 11:15 (25 minutes)

Presenter: ZAKHARCHUK, Natalia (DESY)

Session Classification: PDFs, QCD fits, low x session II

Contribution ID: 11

Type: **not specified**

Spin dependent parton distributions

Tuesday, 13 June 2017 11:40 (25 minutes)

Presenter: BADELEK, Barbara (University of Warsaw (PL))

Session Classification: PDFs, QCD fits, low x session II

Contribution ID: 12

Type: **not specified**

Discussion session: PDFs, QCD fits, low x

Tuesday, 13 June 2017 12:05 (55 minutes)

Presenters: MARTIN, Alan; SARKAR, Amanda (University of Oxford (GB))

Session Classification: PDFs, QCD fits, low x session II

Contribution ID: 13

Type: **not specified**

3-parton production in DIS at small x

Tuesday, 13 June 2017 14:30 (20 minutes)

Presenter: JALILIAN-MARIAN, Jamal (Baruch College)

Session Classification: Jets and final state session I

Contribution ID: 14

Type: **not specified**

Measurement of the inclusive jet, dijet, and photon production in ATLAS

Tuesday, 13 June 2017 14:50 (25 minutes)

Presenter: CANTERO GARCIA, Josu (Oklahoma State University (US))

Session Classification: Jets and final state session I

Contribution ID: 15

Type: **not specified**

Four-jet production in High Energy Factorization plus Parton Showers

Tuesday, 13 June 2017 15:15 (20 minutes)

Presenter: SERINO, Mirko

Session Classification: Jets and final state session I

Contribution ID: 16

Type: **not specified**

Measurement of inclusive jet, dijet and photon production in CMS

Tuesday, 13 June 2017 15:35 (25 minutes)

Presenter: SUNAR CERCI, Deniz (Adiyaman University (TR))

Session Classification: Jets and final state session I

Contribution ID: 17

Type: **not specified**

PDF results from CMS V+jets measurements

Tuesday, 13 June 2017 16:30 (25 minutes)

Presenter: GEISER, Achim (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Jets and final state session II

Contribution ID: **18**

Type: **not specified**

Production of electroweak bosons on association with jets in ATLAS

Tuesday, 13 June 2017 16:55 (25 minutes)

Presenter: SPAGNOLO, Stefania (INFN Lecce and Dip. di Matematica e Fisica "Ennio De Giorgi",
Universita del Salento (IT))

Session Classification: Jets and final state session II

Contribution ID: 19

Type: **not specified**

Dihadron production, heavy-quark pair production, dijet and multi-jet production

Tuesday, 13 June 2017 17:20 (20 minutes)

Presenter: CELIBERTO, Francesco Giovanni (Università della Calabria and INFN Cosenza (Italy))

Session Classification: Jets and final state session II

Contribution ID: 20

Type: **not specified**

Dipole description of diffractive dijet and quarkonia production

Tuesday, 13 June 2017 17:40 (20 minutes)

Presenter: PASECHNIK, Roman (Lund University)

Session Classification: Jets and final state session II

Contribution ID: 21

Type: **not specified**

Discussion session: PDFs, jets, QCD fits, photon

Tuesday, 13 June 2017 18:00 (45 minutes)

Presenters: GEISER, Achim (Deutsches Elektronen-Synchrotron (DE)); MARTIN, Alan; SARKAR, Amanda (University of Oxford (GB)); TASSI, Enrico (Universita della Calabria (IT))

Session Classification: Jets and final state session II

Contribution ID: 22

Type: **not specified**

Probing BFKL dynamics in Mueller-Navelet jet production and in very forward J/psi and backward jet production at the LHC

Wednesday, 14 June 2017 08:40 (20 minutes)

Presenter: SZYMANOWSKI, Lech (National Centre for Nuclear Research)

Session Classification: BFKL and saturation session I

Contribution ID: 23

Type: **not specified**

Improved theoretical description of Mueller-Navelet jets at LHC

Wednesday, 14 June 2017 09:00 (20 minutes)

Presenter: COLFERAI, Dimitri

Session Classification: BFKL and saturation session I

Contribution ID: 24

Type: **not specified**

Toward Mueller-Tang jets at Next-to-leading order

Wednesday, 14 June 2017 09:20 (20 minutes)

Presenter: DEGANUTTI, Federico

Session Classification: BFKL and saturation session I

Contribution ID: 25

Type: **not specified**

Multi-jet production in the high energy limit at LHC

Wednesday, 14 June 2017 09:40 (20 minutes)

Presenter: GORDO, David

Session Classification: BFKL and saturation session I

Contribution ID: 26

Type: **not specified**

Unpolarized and linearly-polarized gluon distributions from JIMWLK evolution

Wednesday, 14 June 2017 10:00 (20 minutes)

Presenter: MARQUET, Cyrille (CPHT - Ecole Polytechnique)

Session Classification: BFKL and saturation session I

Contribution ID: 27

Type: **not specified**

High Energy QCD at NLO: from light-cone wave function to JIMWLK evolution

Wednesday, 14 June 2017 10:50 (20 minutes)

Presenter: MULLAN, Yair

Session Classification: BFKL and saturation session II

Contribution ID: 28

Type: **not specified**

Very forward energy flow and jets in pp and pA at CMS

Wednesday, 14 June 2017 11:10 (25 minutes)

Presenter: VAN MECHELEN, Pierre (University of Antwerp (BE))

Session Classification: BFKL and saturation session II

Contribution ID: 29

Type: **not specified**

Saturation effects in dijet production within Hybrid factorization

Wednesday, 14 June 2017 11:35 (20 minutes)

Presenter: ALTINOLUK, Tolga (National Centre for Nuclear Research)

Session Classification: BFKL and saturation session II

Contribution ID: **30**

Type: **not specified**

Discussion session: BFKL and saturation

Wednesday, 14 June 2017 11:55 (1h 5m)

Presenters: MARQUET, Cyrille (CPHT - Ecole Polytechnique); VAN MECHELEN, Pierre (University of Antwerp (BE)); RABEN, Timothy

Session Classification: BFKL and saturation session II

Contribution ID: 31

Type: **not specified**

EW, jets, and heavy flavour production at LHCb

Wednesday, 14 June 2017 14:30 (25 minutes)

Presenter: MUELLER, Katharina (Universitaet Zuerich (CH))

Session Classification: Jets, heavy quark, final states session I

Contribution ID: 32

Type: **not specified**

New measurements of jets in DIS and extraction of α_s at NNLO

Wednesday, 14 June 2017 14:55 (25 minutes)

Presenter: CHEKELIAN, Vladimir (MPI for Physics, Munich)

Session Classification: Jets, heavy quark, final states session I

Contribution ID: 33

Type: **not specified**

ombined measurement of charm and beauty production in DIS and extraction of the charm and beauty quark masses

Wednesday, 14 June 2017 15:20 (25 minutes)

Presenter: GEISER, Achim (Deutsches Elektronen-Synchrotron (DE))

Session Classification: Jets, heavy quark, final states session I

Contribution ID: 34

Type: **not specified**

A Very Forward Hadron Spectrometer at the LHC

Wednesday, 14 June 2017 15:45 (20 minutes)

Presenter: ALBROW, Michael (Fermi National Accelerator Lab. (US))

Session Classification: Jets, heavy quark, final states session I

Contribution ID: 35

Type: **not specified**

D* meson production in diffractive DIS

Wednesday, 14 June 2017 16:35 (25 minutes)

Presenter: VAN MECHELEN, Pierre (University of Antwerp (BE))

Session Classification: Jets, heavy quark, final states session II

Contribution ID: 36

Type: **not specified**

Gluonium production

Wednesday, 14 June 2017 17:00 (25 minutes)

Presenter: GASTALDI, Ugo (Universita di Ferrara & INFN (IT))

Session Classification: Jets, heavy quark, final states session II

Contribution ID: 37

Type: **not specified**

Prompt proton production in DIS at HERA

Wednesday, 14 June 2017 17:25 (25 minutes)

Presenter: MYRONENKO, Volodymyr (DESY)

Session Classification: Jets, heavy quark, final states session II

Contribution ID: 38

Type: **not specified**

Discussion session: Jets, heavy quarks, photon, gluonium

Wednesday, 14 June 2017 17:50 (45 minutes)

Presenters: GEISER, Achim (Deutsches Elektronen-Synchrotron (DE)); TASSI, Enrico (Universita della Calabria (IT))

Session Classification: Jets, heavy quark, final states session II

Contribution ID: 39

Type: **not specified**

Production of one and two J/ψ mesons at the LHC

Friday, 16 June 2017 08:40 (20 minutes)

Presenter: SZCZUREK, Antoni (Institute of Nuclear Physics)

Session Classification: Vector meson session

Contribution ID: 40

Type: **not specified**

Exclusive light meson production at the LHC

Friday, 16 June 2017 09:00 (20 minutes)

Presenter: TRZEBINSKI, Maciej (Polish Academy of Sciences (PL))

Session Classification: Vector meson session

Contribution ID: 41

Type: **not specified**

Small x gluon from b bar and exclusive J/psi production at the LHC

Friday, 16 June 2017 09:20 (20 minutes)

Presenter: MARTIN, Alan

Session Classification: Vector meson session

Contribution ID: 42

Type: **not specified**

Saturation of the resonance spectrum

Friday, 16 June 2017 09:40 (20 minutes)

Presenter: JENKOVSKY, Laszlo (National Academy of Sciences of Ukraine)

Session Classification: Vector meson session

Contribution ID: 43

Type: **not specified**

Recent results from totem

Friday, 16 June 2017 10:45 (25 minutes)

Presenter: CSORGO, Tamas (Hungarian Academy of Sciences (HU))

Session Classification: Soft QCD and diffraction session

Contribution ID: 44

Type: **not specified**

Precision REMORM/MBR diffraction predictions confront recent LHC data

Friday, 16 June 2017 11:10 (20 minutes)

Presenter: GOULIANOS, Konstantin (Rockefeller University (US))

Session Classification: Soft QCD and diffraction session

Contribution ID: 45

Type: **not specified**

Hadronization of highly virtual partons: perturbative vs nonperturbative scenarios

Friday, 16 June 2017 11:30 (20 minutes)

Presenter: KOPELIOVICH, Boris (UTFSM)

Session Classification: Soft QCD and diffraction session

Contribution ID: 46

Type: **not specified**

Recent results from LHCf

Friday, 16 June 2017 11:50 (25 minutes)

Presenter: BERTI, Eugenio (Universita e INFN, Firenze (IT))

Session Classification: Soft QCD and diffraction session

Contribution ID: 47

Type: **not specified**

Deep Inverse of Soft Diffraction

Friday, 16 June 2017 12:15 (20 minutes)

Presenter: MIESKOLAINEN, Matti Mikael (Helsinki Institute of Physics (HIP))

Session Classification: Soft QCD and diffraction session

Contribution ID: 48

Type: **not specified**

Discussion session: soft QCD and diffraction, vector mesons

Friday, 16 June 2017 12:35 (25 minutes)

Presenters: SZCZUREK, Antoni (Institute of Nuclear Physics); ALBROW, Michael (Fermi National Accelerator Lab. (US))

Session Classification: Soft QCD and diffraction session

Contribution ID: 49

Type: **not specified**

Results from the combined CMS and TOTEM data taking and high-mass dilepton and diphoton production with the CMS-TOTEM Precision Proton Spectrometer

Friday, 16 June 2017 14:30 (25 minutes)

Presenter: MURRAY, Michael (The University of Kansas (US))

Session Classification: Diffraction at high lumi and photon exchange session I

Contribution ID: 50

Type: **not specified**

Anomalous coupling and invisible objects studies

Friday, 16 June 2017 14:55 (20 minutes)

Presenter: ROYON, Christophe (The University of Kansas (US))

Session Classification: Diffraction at high lumi and photon exchange session I

Contribution ID: 51

Type: **not specified**

Gamma gamma gamma Z anomalous coupling studies

Friday, 16 June 2017 15:15 (20 minutes)

Presenter: BALDENEGRO BARRERA, Cristian (The University of Kansas (US))

Session Classification: Diffraction at high lumi and photon exchange session I

Contribution ID: 52

Type: **not specified**

Measurements of exclusive production in ATLAS

Friday, 16 June 2017 15:35 (25 minutes)

Presenter: IUPPA, Roberto (Universita degli Studi di Trento (IT))

Session Classification: Diffraction at high lumi and photon exchange session I

Contribution ID: 53

Type: **not specified**

Physics prospects and technical status of ATLAS Forward proton detectors

Friday, 16 June 2017 16:30 (25 minutes)

Presenter: GIACOBBE, Benedetto (Universita e INFN, Bologna (IT))

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 54

Type: **not specified**

The CT-PPS project

Friday, 16 June 2017 16:55 (25 minutes)

Presenter: SOLA, Valentina (Universita e INFN Torino (IT))

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 55

Type: **not specified**

ATLAS Forward Detectors: present and future

Friday, 16 June 2017 17:20 (20 minutes)

Presenter: FABBRI, Laura (Universita e INFN, Bologna (IT))

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 56

Type: **not specified**

Turning the LHC Ring into a Discovery Machine

Friday, 16 June 2017 17:40 (20 minutes)

Presenter: ORAVA, Risto (Helsinki Institute of Physics (FI))

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 57

Type: **not specified**

Discussion session: high mass diffraction and photon exchange processes

Friday, 16 June 2017 18:00 (45 minutes)

Presenters: ROYON, Christophe (The University of Kansas (US)); TRZEBINSKI, Maciej (Polish Academy of Sciences (PL))

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 58

Type: **not specified**

A model-independent extension of the Glauber-Velasco model of elastic pp scattering

Saturday, 17 June 2017 08:40 (20 minutes)

Presenter: CSORGO, Tamas (Hungarian Academy of Sciences (HU))

Session Classification: Heavy ion session I

Contribution ID: 59

Type: **not specified**

QCD jets in pp, pA and AA collisions with CMS

Saturday, 17 June 2017 09:00 (25 minutes)

Presenter: NGUYEN, Matthew (Centre National de la Recherche Scientifique (FR))

Session Classification: Heavy ion session I

Contribution ID: **60**

Type: **not specified**

Deep inelastic scattering as a probe of entanglement

Saturday, 17 June 2017 09:25 (20 minutes)

Presenter: Prof. KHARZEEV, Dmitri (Stony Brook University and BNL)

Session Classification: Heavy ion session I

Contribution ID: 61

Type: **not specified**

Inelastic nuclear screening for different secondaries produced in p+Pb collisions at LHC energy

Saturday, 17 June 2017 09:45 (20 minutes)

Presenter: MERINO, Carlos (University of Santiago de Compostela)

Session Classification: Heavy ion session I

Contribution ID: 62

Type: **not specified**

Recent results on photon-photon, photon-nuclear and heavy-ion collisions from ATLAS

Saturday, 17 June 2017 10:05 (25 minutes)

Presenter: SPOUSTA, Martin (Charles University)

Session Classification: Heavy ion session I

Contribution ID: 63

Type: **not specified**

Flow and event-by-event fluctuations in pp, pPb and PbPb collisions at CMS

Saturday, 17 June 2017 11:00 (25 minutes)

Presenter: DEVETAK, Damir (University of Belgrade (RS))

Session Classification: Heavy ion session II

Contribution ID: 64

Type: **not specified**

J/Psi production in peripheral AA collisions

Saturday, 17 June 2017 11:25 (20 minutes)

Presenter: GAY DUCATI, Beatriz

Session Classification: Heavy ion session II

Contribution ID: 65

Type: **not specified**

VHEeP workshop summary

Saturday, 17 June 2017 11:45 (20 minutes)

Presenter: CALDWELL, Allen Christopher (Max-Planck-Institut fuer Physik (Werner-Heisenberg-Institut) (D))

Session Classification: Heavy ion session II

Contribution ID: **66**

Type: **not specified**

Discussion session: Heavy ions

Saturday, 17 June 2017 12:05 (55 minutes)

Presenters: JALLIAN-MARIAN, Jamal (Baruch College); NGUYEN, Matthew (Centre National de la Recherche Scientifique (FR))

Session Classification: Heavy ion session II

Contribution ID: 67

Type: **not specified**

Prompt photon production in diffractive photoproduction -

Saturday, 17 June 2017 15:20 (25 minutes)

Presenters: BRUNI, Alessia (Universita e INFN, Bologna (IT)); CAPUA, Marcella (Universita della Calabria (IT))

Session Classification: Particle production and final state session I

Contribution ID: **68**

Type: **not specified**

Measurement of the particle production properties in ATLAS

Saturday, 17 June 2017 14:30 (25 minutes)

Presenter: BRUNI, Alessia (Universita e INFN, Bologna (IT))

Session Classification: Particle production and final state session I

Contribution ID: 69

Type: **not specified**

Minimum bias and underlying event measurements at CMS

Saturday, 17 June 2017 14:55 (25 minutes)

Presenter: CERCI, Salim (Adiyaman University (TR))

Session Classification: Particle production and final state session I

Contribution ID: 70

Type: **not specified**

Double parton scattering in CMS

Saturday, 17 June 2017 15:45 (25 minutes)

Presenter: SUNAR CERCI, Deniz (Adiyaman University (TR))

Session Classification: Particle production and final state session I

Contribution ID: 71

Type: **not specified**

Discussion session: Particle production, final states

Saturday, 17 June 2017 16:40 (50 minutes)

Presenters: SUNAR CERCI, Deniz (Adiyaman University (TR)); MURRAY, Michael (The University of Kansas (US))

Session Classification: Particle production and final state session II

Contribution ID: 72

Type: **not specified**

Workshop conclusion

Saturday, 17 June 2017 17:30 (10 minutes)

Contribution ID: 73

Type: **not specified**

CEP results from LHCb

Presenter: MUELLER, Katharina (COAR)

Session Classification: Diffraction at high lumi and photon exchange session II

Contribution ID: 74

Type: **not specified**

Concerto at Anfiteatro di Ponente

Friday, 16 June 2017 20:30 (2 hours)

Performance of Orchestra Filarmonica Pugliese

Contribution ID: 75

Type: **not specified**

CEP results from LHCb

Friday, 16 June 2017 10:00 (20 minutes)

Presenter: MUELLER, Katharina (Universitaet Zuerich (CH))

Session Classification: Vector meson session