

HERA/LHC Workshop

Report of Contributions

Contribution ID: 1

Type: **not specified**

Precision Measurements at the LHC

Tuesday, 12 October 2004 17:30 (1 hour)

Primary author: M. MANGANO

Presenter: M. MANGANO

Session Classification: Plenary Meeting

Contribution ID: 2

Type: **not specified**

Averaging of DIS cross section measurements

Tuesday, 12 October 2004 09:00 (20 minutes)

Primary author: SASHA GLAZOV

Presenter: SASHA GLAZOV

Session Classification: WG1: Parton Density Functions

Contribution ID: 3

Type: **not specified**

Unintegrated parton densities (in common with WG1)

Tuesday, 12 October 2004 16:00 (45 minutes)

Primary author: HANNES JUNG

Presenter: HANNES JUNG

Session Classification: WG1: Parton Density Functions

Contribution ID: 4

Type: **not specified**

round table on LHC observables

Tuesday, 12 October 2004 14:30 (1 hour)

Primary author: MICHAEL DITTMAR

Presenter: MICHAEL DITTMAR

Session Classification: WG1: Parton Density Functions

Contribution ID: 5

Type: **not specified**

Discussion and future tasks

Tuesday, 12 October 2004 15:30 (30 minutes)

Primary author: M. DITTMAR, S. FORTE, A. GLAZOV, S. MOCH

Presenter: M. DITTMAR, S. FORTE, A. GLAZOV, S. MOCH

Session Classification: WG1: Parton Density Functions

Contribution ID: 6

Type: **not specified**

PDFs from hadronic final state observables

Tuesday, 12 October 2004 09:20 (30 minutes)

Primary author: TANCREDI CARLI

Presenter: TANCREDI CARLI

Session Classification: WG1: Parton Density Functions

Contribution ID: 7

Type: **not specified**

ZEUS/H1 PDF analysis and prediction of Tevatron jet data

Tuesday, 12 October 2004 09:50 (30 minutes)

Primary author: MANDY COOPER-SARKAR

Presenter: MANDY COOPER-SARKAR

Session Classification: WG1: Parton Density Functions

Contribution ID: 8

Type: **not specified**

MRST update: PDFs with QED corrections and investigations of the high-x gluon

Tuesday, 12 October 2004 10:50 (30 minutes)

Primary author: JAMES STIRLING

Presenter: JAMES STIRLING

Session Classification: WG1: Parton Density Functions

Contribution ID: 9

Type: **not specified**

Stability of global NLO pdf analyses

Tuesday, 12 October 2004 11:20 (30 minutes)

Primary author: JOEY HUSTON

Presenter: JOEY HUSTON

Session Classification: WG1: Parton Density Functions

Contribution ID: **10**

Type: **not specified**

NNLO partons from HERA to LHC

Tuesday, 12 October 2004 11:50 (30 minutes)

Primary author: SERGEY ALEKHIN

Presenter: SERGEY ALEKHIN

Session Classification: WG1: Parton Density Functions

Contribution ID: 11

Type: **not specified**

Impact of soft resummation on structure functions

Tuesday, 12 October 2004 12:20 (30 minutes)

Primary author: GENNARO CORCELLA

Presenter: GENNARO CORCELLA

Session Classification: WG1: Parton Density Functions

Contribution ID: 12

Type: **not specified**

Multi-jet topologies and multi-scale QCD (in common with WG5)

Tuesday, 12 October 2004 10:00 (1 hour)

Session Classification: WG2: Multi-jet Final States and Energy Flow

Contribution ID: 13

Type: **not specified**

Multi-jet topologies and multi-scale QCD

Tuesday, 12 October 2004 14:00 (45 minutes)

Session Classification: WG2: Multi-jet Final States and Energy Flow

Contribution ID: 14

Type: **not specified**

Discussion: What will go in tomorrows summary? What will go in the proceedings?

Tuesday, 12 October 2004 14:45 (45 minutes)

Session Classification: WG2: Multi-jet Final States and Energy Flow

Contribution ID: 15

Type: **not specified**

Unintegrated parton densities (in common with WG1)

Tuesday, 12 October 2004 16:00 (50 minutes)

Session Classification: WG2: Multi-jet Final States and Energy Flow

Contribution ID: 16

Type: **not specified**

Parton shower/ME matching (in common with WG5)

Tuesday, 12 October 2004 11:30 (1 hour)

Session Classification: WG2: Multi-jet Final States and Energy Flow

Contribution ID: 17

Type: **not specified**

Discussion on benchmark cross sections

Tuesday, 12 October 2004 09:00 (1 hour)

Primary author: M. CORRADI

Presenter: M. CORRADI

Session Classification: WG3: Heavy Flavours

Contribution ID: **18**

Type: **not specified**

Structure of the final WG3 writeup

Tuesday, 12 October 2004 10:00 (1 hour)

Primary author: ALL PARTICIPANTS

Presenter: ALL PARTICIPANTS

Session Classification: WG3: Heavy Flavours

Contribution ID: 19

Type: **not specified**

Discussion on contributions, authorship and editors

Tuesday, 12 October 2004 11:00 (1 hour)

Primary author: ALL PARTICIPANTS

Presenter: ALL PARTICIPANTS

Session Classification: WG3: Heavy Flavours

Contribution ID: **20**

Type: **not specified**

Preparation of review talk for plenary session

Tuesday, 12 October 2004 14:00 (2h 30m)

Primary author: WG3 CONVENERS

Presenter: WG3 CONVENERS

Session Classification: WG3: Heavy Flavours

Contribution ID: 21

Type: **not specified**

AGK cutting rules for ep and pp collisions

Tuesday, 12 October 2004 09:00 (30 minutes)

Primary author: J. BARTELS

Presenter: J. BARTELS

Session Classification: WG4: Diffraction

Contribution ID: 22

Type: **not specified**

Central Diffraction at the LHC - An Update

Tuesday, 12 October 2004 14:25 (25 minutes)

Primary author: R. ORAVA

Presenter: R. ORAVA

Session Classification: WG4: Diffraction

Contribution ID: 23

Type: **not specified**

Idea for an Upgrade of Forward Region at H1

Tuesday, 12 October 2004 11:15 (20 minutes)

Primary author: V. ANDREEV

Presenter: V. ANDREEV

Session Classification: WG4: Diffraction

Contribution ID: 24

Type: **not specified**

Analysis of Non-Forward Gluon Amplitudes at High Energies - Nonforward Case

Tuesday, 12 October 2004 10:55 (20 minutes)

Primary author: A. SABIO-VERA

Presenter: A. SABIO-VERA

Session Classification: WG4: Diffraction

Contribution ID: 25

Type: **not specified**

3D structure of the nucleon gluon field and its implications for associated hadron production in events with dijets and new particles and for diffraction

Tuesday, 12 October 2004 09:30 (50 minutes)

Primary author: M. STRIKMAN

Presenter: M. STRIKMAN

Session Classification: WG4: Diffraction

Contribution ID: 26

Type: **not specified**

Recent results on central production

Tuesday, 12 October 2004 14:00 (25 minutes)

Primary author: M. BOONEKAMP

Presenter: M. BOONEKAMP

Session Classification: WG4: Diffraction

Contribution ID: 27

Type: **not specified**

(no title)

Tuesday, 12 October 2004 14:50 (35 minutes)

Session Classification: WG4: Diffraction

Contribution ID: 28

Type: **not specified**

Zero Degree Calorimeters and Forward Physics in CMS

Tuesday, 12 October 2004 15:25 (30 minutes)

Primary author: M. MURRAY (VRVS)

Presenter: M. MURRAY (VRVS)

Session Classification: WG4: Diffraction

Contribution ID: 29

Type: **not specified**

Final states at HERA and the LHC

Wednesday, 13 October 2004 09:00 (40 minutes)

Primary author: G. GUSTAFSON

Presenter: G. GUSTAFSON

Session Classification: Plenary session

Contribution ID: **30**

Type: **not specified**

Report on the TeV4LHC workshop

Wednesday, 13 October 2004 09:40 (40 minutes)

Primary author: J. HUSTON

Presenter: J. HUSTON

Session Classification: Plenary session

Contribution ID: 31

Type: **not specified**

Diffraction Higgs Production

Wednesday, 13 October 2004 10:50 (40 minutes)

Primary author: V. KHOZE

Presenter: V. KHOZE

Session Classification: Plenary session

Contribution ID: 32

Type: **not specified**

Precisions measurements at HERA

Wednesday, 13 October 2004 11:30 (40 minutes)

Primary author: M. KLEIN

Presenter: M. KLEIN

Session Classification: Plenary session

Contribution ID: 33

Type: **not specified**

Report of WG1: Structure Functions

Wednesday, 13 October 2004 14:00 (40 minutes)

Primary author: S. MOCH, M. DITTMAR

Presenter: S. MOCH, M. DITTMAR

Session Classification: Plenary session

Contribution ID: 34

Type: **not specified**

Report of WG2: Hadronic Final States

Wednesday, 13 October 2004 14:40 (40 minutes)

Primary author: N.TUNING

Presenter: N.TUNING

Session Classification: Plenary session

Contribution ID: 35

Type: **not specified**

Report of WG3: Heavy Flavours

Wednesday, 13 October 2004 15:20 (40 minutes)

Session Classification: Plenary session

Contribution ID: 36

Type: **not specified**

Report of WG4: Diffraction

Wednesday, 13 October 2004 16:20 (40 minutes)

Session Classification: Plenary session

Contribution ID: 37

Type: **not specified**

Report of WG5: MC Generators

Wednesday, 13 October 2004 17:00 (40 minutes)

Primary author: V. LENDERMANN

Presenter: V. LENDERMANN

Session Classification: Plenary session

Contribution ID: **38**

Type: **not specified**

Next Steps for the workshop

Wednesday, 13 October 2004 17:40 (20 minutes)

Session Classification: Plenary session

Contribution ID: 39

Type: **not specified**

Introduction: where do we stand?

Monday, 11 October 2004 09:00 (30 minutes)

Primary author: M. DITTMAR, S. FORTE, A. GLAZOV, S. MOCH

Presenter: M. DITTMAR, S. FORTE, A. GLAZOV, S. MOCH

Session Classification: WG1: Parton Density Functions

Contribution ID: 40

Type: **not specified**

NNLO differential distributions

Monday, 11 October 2004 09:30 (30 minutes)

Primary author: CHARALAMPOS ANASTASIOU

Presenter: CHARALAMPOS ANASTASIOU

Session Classification: WG1: Parton Density Functions

Contribution ID: 41

Type: **not specified**

NNLO scheme invariant evolution of structure functions

Monday, 11 October 2004 12:30 (30 minutes)

Primary author: ALBERTO GUFFANTI

Presenter: ALBERTO GUFFANTI

Session Classification: WG1: Parton Density Functions

Contribution ID: 42

Type: **not specified**

The role of bottom pdf in Higgs and vector boson production

Monday, 11 October 2004 14:20 (40 minutes)

Primary author: FABIO MALTONI

Presenter: FABIO MALTONI

Session Classification: WG1: Parton Density Functions

Contribution ID: 43

Type: **not specified**

Preliminary study of Z+b production in ATLAS

Monday, 11 October 2004 15:00 (20 minutes)

Primary author: ALESSANDRA TONAZZO

Presenter: ALESSANDRA TONAZZO

Session Classification: WG1: Parton Density Functions

Contribution ID: 44

Type: **not specified**

Nonlinear corrections to the DGLAP equations in view of the HERA data

Monday, 11 October 2004 15:30 (30 minutes)

Primary author: V. KOLHINEN

Presenter: V. KOLHINEN

Session Classification: WG1: Parton Density Functions

Contribution ID: 45

Type: **not specified**

Small x resummation and structure functions

Monday, 11 October 2004 11:30 (30 minutes)

Primary author: GUIDO ALTARELLI

Presenter: GUIDO ALTARELLI

Session Classification: WG1: Parton Density Functions

Contribution ID: 46

Type: **not specified**

Common session with WG3:

Monday, 11 October 2004 14:15 (1h 45m)

Session Classification: WG1: Parton Density Functions

Contribution ID: 47

Type: **not specified**

Harmonic sums

Monday, 11 October 2004 10:00 (30 minutes)

Primary author: JOHANNES BLUEMLEIN

Presenter: JOHANNES BLUEMLEIN

Session Classification: WG1: Parton Density Functions

Contribution ID: 48

Type: **not specified**

Higher Order Effects in Non Linear Evolution

Monday, 11 October 2004 10:30 (30 minutes)

Primary author: GRIGORIOS CHACHAMIS

Presenter: GRIGORIOS CHACHAMIS

Session Classification: WG1: Parton Density Functions

Contribution ID: 49

Type: **not specified**

LHC final states: experimental and theoretical accuracies

Monday, 11 October 2004 16:30 (1h 30m)

Primary author: MICHAEL DITTMAR

Presenter: MICHAEL DITTMAR

Session Classification: WG1: Parton Density Functions

Contribution ID: 50

Type: **not specified**

General Discussion: Where are we now?

Monday, 11 October 2004 09:00 (30 minutes)

Session Classification: WG2: Multi-jet Final States and Energy Flows

Contribution ID: 51

Type: **not specified**

Common sessions with WG4 and WG5

Monday, 11 October 2004 14:00 (1h 30m)

Session Classification: WG2: Multi-jet Final States and Energy Flows

Contribution ID: 52

Type: **not specified**

Rapidity gaps and survival probabilities (in common with WG4)

Monday, 11 October 2004 16:00 (2 hours)

Session Classification: WG2: Multi-jet Final States and Energy Flows

Contribution ID: 53

Type: **not specified**

Minimum bias and underlying events (in common with WG5)

Monday, 11 October 2004 09:30 (1 hour)

Session Classification: WG2: Multi-jet Final States and Energy Flows

Contribution ID: 54

Type: **not specified**

Minimum bias and underlying events (in common with WG5)

Monday, 11 October 2004 11:00 (1h 30m)

Session Classification: WG2: Multi-jet Final States and Energy Flows

Contribution ID: 55

Type: **not specified**

Summary of previous meetings: Theory

Monday, 11 October 2004 10:00 (30 minutes)

Primary author: M. CACCIARI

Presenter: M. CACCIARI

Session Classification: WG3: Heavy Quarks

Contribution ID: 56

Type: **not specified**

The role of bottom pdf in Higgs and vector boson production

Monday, 11 October 2004 14:20 (40 minutes)

Primary author: F. MALTONI

Presenter: F. MALTONI

Session Classification: WG3: Heavy Quarks

Contribution ID: 57

Type: **not specified**

Preliminary study of Z+b production in ATLAS

Monday, 11 October 2004 15:00 (20 minutes)

Primary author: A. TONAZZO

Presenter: A. TONAZZO

Session Classification: WG3: Heavy Quarks

Contribution ID: 58

Type: **not specified**

Q-Qbar correlations at HERA: measurements by H1

Monday, 11 October 2004 17:20 (20 minutes)

Primary author: O. BEHNKE

Presenter: O. BEHNKE

Session Classification: WG3: Heavy Quarks

Contribution ID: 59

Type: **not specified**

Measurement of b-bbar correlations at the LHC with ATLAS

Monday, 11 October 2004 17:40 (30 minutes)

Primary author: T. LAGOURI

Presenter: T. LAGOURI

Session Classification: WG3: Heavy Quarks

Contribution ID: **60**

Type: **not specified**

Common session with WG1:

Monday, 11 October 2004 14:15 (1h 45m)

Session Classification: WG3: Heavy Quarks

Contribution ID: **61**

Type: **not specified**

Summary of previous meetings: Phenomenology

Monday, 11 October 2004 10:30 (30 minutes)

Primary author: M. CORRADI

Presenter: M. CORRADI

Session Classification: WG3: Heavy Quarks

Contribution ID: 62

Type: **not specified**

Threshold resummation for differential heavy quark structure functions

Monday, 11 October 2004 11:30 (30 minutes)

Primary author: E. LAENEN

Presenter: E. LAENEN

Session Classification: WG3: Heavy Quarks

Contribution ID: **63**

Type: **not specified**

QCD analysis of b cross section data at 1.96 TeV

Monday, 11 October 2004 12:00 (30 minutes)

Primary author: M. CACCIARI

Presenter: M. CACCIARI

Session Classification: WG3: Heavy Quarks

Contribution ID: 64

Type: **not specified**

Nonlinear corrections to the DGLAP equations in view of the HERA data

Monday, 11 October 2004 15:30 (30 minutes)

Primary author: V. KOLHINEN

Presenter: V. KOLHINEN

Session Classification: WG3: Heavy Quarks

Contribution ID: 65

Type: **not specified**

Charm enhancement at the LHC due to nonlinear gluon evolution

Monday, 11 October 2004 16:30 (20 minutes)

Primary author: A. DAINESE

Presenter: A. DAINESE

Session Classification: WG3: Heavy Quarks

Contribution ID: 66

Type: **not specified**

Nonlinear evolution and heavy quarks

Monday, 11 October 2004 16:50 (30 minutes)

Primary author: K. KUTAK

Presenter: K. KUTAK

Session Classification: WG3: Heavy Quarks

Contribution ID: 67

Type: **not specified**

From HERA LPS diffractive PDFs to the Tevatron

Monday, 11 October 2004 11:00 (25 minutes)

Primary author: A.PROSKURYAKOV/M.ARNEODO

Presenter: A.PROSKURYAKOV/M.ARNEODO

Session Classification: WG4: Diffraction

Contribution ID: 68

Type: **not specified**

D-LHAPDF / D-PDFLIB: Towards a library for diffractive pdf's

Monday, 11 October 2004 11:25 (20 minutes)

Primary author: F.-P. SCHILLING

Presenter: F.-P. SCHILLING

Session Classification: WG4: Diffraction

Contribution ID: 69

Type: **not specified**

Forward Proton Tagging as a means to discover new physics at the LHC

Monday, 11 October 2004 14:00 (40 minutes)

Primary author: B. COX

Presenter: B. COX

Session Classification: WG4: Diffraction

Contribution ID: 70

Type: **not specified**

The ExHume Monte Carlo for central exclusive production

Monday, 11 October 2004 14:40 (20 minutes)

Primary author: J. MONK

Presenter: J. MONK

Session Classification: WG4: Diffraction

Contribution ID: 71

Type: **not specified**

Diffractive dijets at the LHC

Monday, 11 October 2004 15:00 (30 minutes)

Primary author: A. SOBOL

Presenter: A. SOBOL

Session Classification: WG4: Diffraction

Contribution ID: 72

Type: **not specified**

PYTHIA 7 / ThePEG

Monday, 11 October 2004 14:00 (15 minutes)

Primary author: LEIF LONNBLAD

Presenter: LEIF LONNBLAD

Session Classification: WG5: MC-Tools

Contribution ID: 73

Type: **not specified**

Discussion: summary and proceedings of WG5

Monday, 11 October 2004 16:45 (30 minutes)

Session Classification: WG5: MC-Tools

Contribution ID: 74

Type: **not specified**

NLOLIB

Monday, 11 October 2004 16:30 (15 minutes)

Primary author: VICTOR LENDERMANN FOR THOMAS SCHOERNER

Presenter: VICTOR LENDERMANN FOR THOMAS SCHOERNER

Session Classification: WG5: MC-Tools

Contribution ID: 75

Type: **not specified**

HERWIG++

Monday, 11 October 2004 14:15 (15 minutes)

Primary author: STEFAN GIESEKE

Presenter: STEFAN GIESEKE

Session Classification: WG5: MC-Tools

Contribution ID: 76

Type: **not specified**

SHERPA

Monday, 11 October 2004 14:30 (15 minutes)

Primary author: STEFFEN SCHUMANN

Presenter: STEFFEN SCHUMANN

Session Classification: WG5: MC-Tools

Contribution ID: 77

Type: **not specified**

Particle data interface for ThePEG

Monday, 11 October 2004 14:45 (15 minutes)

Primary author: PETER RICHARDSON (VRVS)

Presenter: PETER RICHARDSON (VRVS)

Session Classification: WG5: MC-Tools

Contribution ID: 78

Type: **not specified**

Discussion: particle data exchange

Monday, 11 October 2004 15:00 (30 minutes)

Session Classification: WG5: MC-Tools

Contribution ID: 79

Type: **not specified**

LHAPDF version 3

Monday, 11 October 2004 16:00 (15 minutes)

Primary author: MIKE WHALLEY

Presenter: MIKE WHALLEY

Session Classification: WG5: MC-Tools

Contribution ID: **80**

Type: **not specified**

RunMC v3.1. C++ object-oriented framework for Monte Carlo models

Monday, 11 October 2004 16:15 (15 minutes)

Primary author: , Sergei Chekanov (VRVS) (ANL)

Presenter: , Sergei Chekanov (VRVS) (ANL)

Session Classification: WG5: MC-Tools