

LHeC QCD and Electroweak Physics Workshop

Report of Contributions

Contribution ID: 0

Type: **not specified**

Introduction

Contribution ID: 1

Type: **not specified**

LHeC: Direct determination of PDFs from inclusive ep data

Thursday 8 April 2010 09:45 (30 minutes)

Presenter: KLEIN, Max

Session Classification: Inclusive Measurements: PDF Fits, alpha_s, electroweak physics potentials

Contribution ID: 2

Type: **not specified**

LHeC impact on PDF determination

Thursday 8 April 2010 10:15 (30 minutes)

Abstract: “The HERA collider has provided high precision data which is nowadays essential to constrain the proton structure and has a very important impact for the LHC physics program. The LHeC offers the possibility of an enlarged kinematical range with higher luminosities, as well as the possibility of colliding different species like deuterons. In this talk we examine, using as a baseline the NNPDF2.0 global parton analysis, the impact of LHeC pseudo-data in different scenarios in reducing the PDF uncertainties”.

Presenter: GUFFANTI, Alberto (University of Freiburg)

Session Classification: Inclusive Measurements: PDF Fits, α_s , electroweak physics potentials

Contribution ID: 3

Type: **not specified**

Alpha_s determination at LHeC from inclusive ep data and jets

Thursday 8 April 2010 10:45 (30 minutes)

Presenter: KLUGE, Thomas (University of Liverpool)

Session Classification: Inclusive Measurements: PDF Fits, alpha_s, electroweak physics potentials

Contribution ID: 4

Type: **not specified**

Introduction to workshop

Thursday 8 April 2010 09:30 (15 minutes)

Presenter: BEHNKE, Olaf (DESY)

Session Classification: Inclusive Measurements: PDF Fits, alpha_s, electroweak physics potentials

Contribution ID: 5

Type: **not specified**

Discussion of issues for conceptional design report

Thursday 8 April 2010 11:30 (45 minutes)

Session Classification: Inclusive Measurements: PDF Fits, alpha_s, electroweak physics potentials

Contribution ID: 6

Type: **not specified**

High pt dijet photoproduction at LHeC

Thursday 8 April 2010 13:30 (30 minutes)

Presenter: GLASMAN, Claudia

Session Classification: Jets, charm & beauty production, single top production

Contribution ID: 8

Type: **not specified**

Charm and beauty production in DIS using HVQDIS massive NLO programme (tbc)

Contribution ID: 9

Type: **not specified**

Charm meson photoproduction at LHeC

Thursday 8 April 2010 14:00 (30 minutes)

Presenter: SPIESBERGER, Hubert (University Mainz)

Session Classification: Jets, charm & beauty production, single top production

Contribution ID: **10**

Type: **not specified**

bb + Higgs production at LHeC with Madgraph

Thursday 8 April 2010 15:40 (20 minutes)

Presenter: FRANCK, Joachim (Uni Hamburg)

Session Classification: Higgs production at LHeC

Contribution ID: 11

Type: **not specified**

Discussion of conceptional design report: expected contributions (structure/content)

Contribution ID: 12

Type: **not specified**

Time for further contributions and discussion (also on specific issues for CDR)

Thursday 8 April 2010 14:30 (30 minutes)

Session Classification: Jets, charm & beauty production, single top production

Contribution ID: 13

Type: **not specified**

Production of non-Standard Higgs(es) in ep Scattering

Thursday 8 April 2010 16:00 (20 minutes)

Presenter: KHATER, Wafaa (DESY)

Session Classification: Higgs production at LHeC

Contribution ID: 14

Type: **not specified**

The NNPDF approach to parton distribution functions and expected PDF improvements from HERA to LHeC

Thursday 8 April 2010 17:00 (45 minutes)

Presenter: GUFFANTI, Alberto (University of Freiburg)

Session Classification: Joint session with DESY analysis centre seminar

Contribution ID: 15

Type: **not specified**

Report from low x group on CDR plans

Thursday 8 April 2010 11:15 (15 minutes)

Presenter: Dr NEWMAN, Paul (Birmingham University)

Session Classification: Inclusive Measurements: PDF Fits, alpha_s, electroweak physics potentials

Contribution ID: 16

Type: **not specified**

Simulation of Higgs signal and background at LHeC

Thursday 8 April 2010 16:20 (20 minutes)

Presenter: KIMURA, Kengo (Tokyo)

Session Classification: Higgs production at LHeC