

# QCD at the LHC

## Report of Contributions

Contribution ID: 0

Type: **not specified**

## **Soft QCD results from Atlas**

*Monday 22 August 2011 09:00 (40 minutes)*

**Session Classification:** Plenary Talks I

Contribution ID: 1

Type: **not specified**

## **Soft QCD results from CMS**

*Monday 22 August 2011 09:50 (40 minutes)*

**Session Classification:** Plenary Talks I

Contribution ID: 2

Type: **not specified**

# Theory of Jets

Contribution ID: 3

Type: **not specified**

## **Hard QCD results from Atlas**

*Monday 22 August 2011 11:20 (40 minutes)*

**Session Classification:** Plenary Talks I

Contribution ID: 4

Type: **not specified**

## **Hard QCD results from CMS**

*Monday 22 August 2011 12:10 (40 minutes)*

**Session Classification:** Plenary Talks I

Contribution ID: 5

Type: **not specified**

## Theory of Jets

*Tuesday 23 August 2011 09:50 (40 minutes)*

**Presenter:** DASGUPTA, Mrinal (Manchester)

**Session Classification:** Plenary Talks II

Contribution ID: 6

Type: **not specified**

## PDFs

*Tuesday 23 August 2011 09:00 (40 minutes)*

**Presenter:** THORNE, Robert (UCL)

**Session Classification:** Plenary Talks II



Contribution ID: 7

Type: **not specified**

## Higher Order Calculations

*Tuesday 23 August 2011 11:20 (40 minutes)*

**Author:** KUNSZT, Zoltan (ETH Zurich)

**Presenter:** KUNSZT, Zoltan (ETH Zurich)

**Session Classification:** Plenary Talks II

Contribution ID: 8

Type: **not specified**

## Monte Carlo

*Tuesday 23 August 2011 12:10 (40 minutes)*

**Presenter:** HOECHE, Stefan (SLAC)

**Session Classification:** Plenary Talks II

Contribution ID: 9

Type: **not specified**

## Resummation

*Wednesday 24 August 2011 09:00 (40 minutes)*

**Presenter:** MAGNEA, Lorenzo (Torino)

**Session Classification:** Plenary Talks III

Contribution ID: **10**

Type: **not specified**

## **Top Physics**

*Wednesday 24 August 2011 09:50 (40 minutes)*

**Presenter:** UWER, Peter (HU Berlin)

**Session Classification:** Plenary Talks III

Contribution ID: 11

Type: **not specified**

# Higgs Physics

*Wednesday 24 August 2011 11:20 (40 minutes)*

**Presenter:** PASSARINO, Giampiero (INFN Torino)

**Session Classification:** Plenary Talks III

Contribution ID: 12

Type: **not specified**

## QCD 4 BSM

*Wednesday 24 August 2011 12:10 (40 minutes)*

**Presenter:** SPANNOWSKY, Michael (Oregon)

**Session Classification:** Plenary Talks III

Contribution ID: 13

Type: **not specified**

## Concluding remarks

*Friday 26 August 2011 11:00 (1 hour)*

**Author:** ELLIS, Keith (Fermilab)

**Presenter:** ELLIS, Keith (Fermilab)

**Session Classification:** Summary Talks and Discussion

Contribution ID: 14

Type: **not specified**

## Summary of "Hard QCD"

*Friday 26 August 2011 09:00 (30 minutes)*

**Author:** BEGEL, Michael (Brookhaven National Laboratory)

**Presenter:** BEGEL, Michael (Brookhaven National Laboratory)

**Session Classification:** Summary Talks and Discussion



Contribution ID: 15

Type: **not specified**

## Summary of "Soft QCD"

*Friday 26 August 2011 09:30 (30 minutes)*

**Session Classification:** Summary Talks and Discussion

Contribution ID: **16**

Type: **not specified**

## Summary of "PDFs"

*Friday 26 August 2011 10:00 (30 minutes)*

**Session Classification:** Summary Talks and Discussion

Contribution ID: 17

Type: **not specified**

## **Soft QCD and Correlation results from ALICE**

Contribution ID: **18**

Type: **not specified**

## **Color flow in hard scattering processes**

*Monday 22 August 2011 17:10 (30 minutes)*

**Presenter:** MARZANI, Simone

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: 19

Type: **not specified**

## The universality of Monte Carlo tunes

*Monday 22 August 2011 14:55 (30 minutes)*

**Presenter:** FIELD, Rick

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: 20

Type: **not specified**

## **Double Parton Scattering Theory**

*Monday 22 August 2011 15:35 (30 minutes)*

**Presenter:** GAUNT, Jonathan

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: 21

Type: **not specified**

## **Soft physics corrections to Jets**

*Monday 22 August 2011 16:30 (30 minutes)*

**Presenter:** DASGUPTA, Mrinal

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: 22

Type: **not specified**

## **Parton Showers and Multiple Parton Interactions**

*Monday 22 August 2011 14:15 (30 minutes)*

**Presenter:** NAGY, Zoltan

**Session Classification:** Common Soft/Hard QCD Session I



Contribution ID: 23

Type: **not specified**

## **Soft QCD and Correlations results from ALICE**

*Tuesday 23 August 2011 14:30 (30 minutes)*

**Presenter:** REYGERS, Klaus

**Session Classification:** Soft QCD Session II

Contribution ID: 24

Type: **not specified**

## Correlations at the LHC

*Tuesday 23 August 2011 15:00 (30 minutes)*

**Presenter:** BUTTAR, Craig

**Session Classification:** Soft QCD Session II

Contribution ID: 25

Type: **not specified**

## Discussion on Correlations

Contribution ID: 26

Type: **not specified**

## **Minireview on models for diffractive excitations and the Lund cascade model DIPSY**

*Tuesday 23 August 2011 15:30 (45 minutes)*

**Presenter:** GUSTAFSON, Gosta

**Session Classification:** Soft QCD Session II

Contribution ID: 27

Type: **not specified**

## Soft QCD and FWD results from LHCb

**Presenter:** CONTU, Andrea

Contribution ID: 28

Type: **not specified**

## **Forward and Diffractive results from CMS and ATLAS**

*Tuesday 23 August 2011 16:30 (30 minutes)*

**Presenter:** ROLAND, Benoit

**Session Classification:** Soft QCD Session II

Contribution ID: 29

Type: **not specified**

## **Discussion on Future of Soft QCD/Correlations**

*Tuesday 23 August 2011 17:00 (45 minutes)*

**Session Classification:** Soft QCD Session II

Contribution ID: **30**

Type: **not specified**

## **ATLAS MC Tuning effort**

*Thursday 25 August 2011 14:30 (30 minutes)*

**Presenter:** BUCKLEY, A.

**Session Classification:** Soft QCD Session III



Contribution ID: **31**

Type: **not specified**

## **CMS MC Tunning effort**

*Thursday 25 August 2011 15:00 (30 minutes)*

**Presenter:** Prof. FIELD, Rick (University of Florida)

**Session Classification:** Soft QCD Session III

Contribution ID: 32

Type: **not specified**

## **PYTHIA MC Status**

*Thursday 25 August 2011 15:30 (30 minutes)*

**Presenter:** CORKE, Richard

**Session Classification:** Soft QCD Session III

Contribution ID: 33

Type: **not specified**

## HERWIG MC Status

*Thursday 25 August 2011 16:30 (30 minutes)*

**Presenter:** ROEHR, Christian

**Session Classification:** Soft QCD Session III

Contribution ID: **34**

Type: **not specified**

## **SHERPA MC Status**

**Presenter:** Dr KRAUSS, frank (ippd durham)

Contribution ID: 35

Type: **not specified**

## **Discussion on MC and Tuning**

*Thursday 25 August 2011 17:00 (45 minutes)*

**Session Classification:** Soft QCD Session III

Contribution ID: 36

Type: **not specified**

## Status of NNLO calculations

*Tuesday 23 August 2011 14:30 (30 minutes)*

**Presenter:** Dr GLOVER, Nigel (IPPP, Durham University)

**Session Classification:** Hard QCD Session II

Contribution ID: 37

Type: **not specified**

## Discussion

*Tuesday 23 August 2011 15:00 (15 minutes)*

**Session Classification:** Hard QCD Session II

Contribution ID: **38**

Type: **not specified**

## **Recent progress in matching shower MC's and ME's**

*Tuesday 23 August 2011 15:15 (30 minutes)*

**Presenter:** SCHOENHERR, Marek

**Session Classification:** Hard QCD Session II



Contribution ID: 39

Type: **not specified**

## Discussion

*Tuesday 23 August 2011 15:45 (15 minutes)*

**Session Classification:** Hard QCD Session II

Contribution ID: 40

Type: **not specified**

## **Boosted jet physics**

*Tuesday 23 August 2011 16:30 (30 minutes)*

**Presenter:** LOCH, Peter

**Session Classification:** Hard QCD Session II

Contribution ID: 41

Type: **not specified**

## Discussion

*Tuesday 23 August 2011 17:00 (15 minutes)*

**Session Classification:** Hard QCD Session II

Contribution ID: 42

Type: **not specified**

## **W+multi-jets**

*Tuesday 23 August 2011 17:15 (30 minutes)*

**Presenter:** HUSTON, Joey

**Session Classification:** Hard QCD Session II

Contribution ID: 43

Type: **not specified**

## Discussion

*Tuesday 23 August 2011 17:45 (15 minutes)*

**Session Classification:** Hard QCD Session II

Contribution ID: 44

Type: **not specified**

## **Alpha\_S measurements at the LHC discussion**

Contribution ID: 45

Type: **not specified**

## Tensor reductions of Feynman integrals

*Thursday 25 August 2011 14:30 (30 minutes)*

**Presenter:** RIEMANN, Tord

**Session Classification:** Hard QCD session IV

Contribution ID: 46

Type: **not specified**

## **Numerical evaluation of loop corrections**

*Thursday 25 August 2011 15:10 (30 minutes)*

**Presenter:** REUSCHLE, Christian

**Session Classification:** Hard QCD session IV



Contribution ID: 47

Type: **not specified**

## Discussion

*Thursday 25 August 2011 15:40 (10 minutes)*

**Session Classification:** Hard QCD session IV

Contribution ID: 48

Type: **not specified**

## **Soft-gluon resummation in t-tbar production at hadron colliders**

*Thursday 25 August 2011 16:30 (20 minutes)*

**Presenter:** PECJAK, Ben

**Session Classification:** Hard QCD session IV

Contribution ID: 49

Type: **not specified**

## **Resummation effects in hard QCD events**

*Thursday 25 August 2011 16:50 (20 minutes)*

**Presenter:** BECHER, Thomas

**Session Classification:** Hard QCD session IV

Contribution ID: 50

Type: **not specified**

## Discussion

*Thursday 25 August 2011 17:10 (15 minutes)*

**Session Classification:** Hard QCD session IV

Contribution ID: 51

Type: **not specified**

**TBA**

Contribution ID: 52

Type: **not specified**

**TBA**

Contribution ID: 53

Type: **not specified**

## **Use of PDF's in MC generators**

*Thursday 25 August 2011 09:00 (30 minutes)*

**Presenter:** NAGY, Zoltan

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: 54

Type: **not specified**

## Discussion

*Thursday 25 August 2011 09:30 (20 minutes)*

**Session Classification:** Common PDF/Hard QCD session III



Contribution ID: 55

Type: **not specified**

## **Uncertainties in prompt photon predictions**

*Thursday 25 August 2011 09:50 (30 minutes)*

**Presenter:** WILLIAMS, Ciaran

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: 56

Type: **not specified**

## Discussion

*Thursday 25 August 2011 10:20 (25 minutes)*

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: 57

Type: **not specified**

## **Impact of jet data on PDF's and standard candles**

*Thursday 25 August 2011 11:15 (20 minutes)*

**Presenter:** ALEKHIN, Sergey

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: 58

Type: **not specified**

## **PDF dependence on the Higgs cross section**

*Thursday 25 August 2011 11:35 (20 minutes)*

**Presenter:** THORNE, Robert

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: 59

Type: **not specified**

## Discussion

*Thursday 25 August 2011 11:55 (20 minutes)*

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: **60**

Type: **not specified**

## **Re-weighting PDF's using experimental data**

*Thursday 25 August 2011 12:15 (30 minutes)*

**Presenter:** BALL, Richard

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: **61**

Type: **not specified**

## Discussion

*Thursday 25 August 2011 12:45 (15 minutes)*

**Session Classification:** Common PDF/Hard QCD session III

Contribution ID: **62**

Type: **not specified**

## **Discussion**

*Monday 22 August 2011 14:45 (10 minutes)*

**Session Classification:** Common Soft/Hard QCD Session I



Contribution ID: **63**

Type: **not specified**

## **Discussion**

*Monday 22 August 2011 15:25 (10 minutes)*

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: **64**

Type: **not specified**

## Discussion

Contribution ID: 65

Type: **not specified**

## Discussion

*Monday 22 August 2011 17:00 (10 minutes)*

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: **66**

Type: **not specified**

## **Discussion**

*Monday 22 August 2011 17:40 (10 minutes)*

**Session Classification:** Common Soft/Hard QCD Session I

Contribution ID: 67

Type: **not specified**

## **W/Z + jet production at CMS**

*Monday 22 August 2011 14:30 (25 minutes)*

**Author:** CUTAJAR, Michael (Imperial College London)

**Presenter:** CUTAJAR, Michael (Imperial College London)

**Session Classification:** PDF Session I

Contribution ID: **68**

Type: **not specified**

## **W/Z + jet production at ATLAS**

*Monday 22 August 2011 14:55 (25 minutes)*

**Author:** DEVETAK, Erik (Stony Brook)

**Presenter:** DEVETAK, Erik (Stony Brook)

**Session Classification:** PDF Session I

Contribution ID: 69

Type: **not specified**

## **W/Z production at LHCb**

*Monday 22 August 2011 15:20 (25 minutes)*

**Author:** BIFANI, Simone (University College Dublin)

**Presenter:** BIFANI, Simone (University College Dublin)

**Session Classification:** PDF Session I

Contribution ID: 70

Type: **not specified**

## **W/Z + jet production at Tevatron**

*Monday 22 August 2011 15:45 (25 minutes)*

**Author:** CAMRADA, Stefano (IFAE Barcelona)

**Presenter:** CAMRADA, Stefano (IFAE Barcelona)

**Session Classification:** PDF Session I



Contribution ID: 71

Type: **not specified**

## **NNPDF update**

*Monday 22 August 2011 16:30 (25 minutes)*

**Author:** DEL DEBBIO, Luigi (Edinburgh)

**Presenter:** DEL DEBBIO, Luigi (Edinburgh)

**Session Classification:** PDF Session I

Contribution ID: 72

Type: **not specified**

## HERAPDF update

*Monday 22 August 2011 16:55 (25 minutes)*

**Author:** RADESCU, Voica (Heidelberg Physikalisches Institut)

**Presenter:** RADESCU, Voica (Heidelberg Physikalisches Institut)

**Session Classification:** PDF Session I

Contribution ID: 73

Type: **not specified**

## **CTEQ PDFs update**

*Monday 22 August 2011 17:20 (25 minutes)*

**Author:** HUSTON, Joey (Michigan State University)

**Presenter:** HUSTON, Joey (Michigan State University)

**Session Classification:** PDF Session I

Contribution ID: 74

Type: **not specified**

## **MSTW PDFs update**

*Tuesday 23 August 2011 14:00 (25 minutes)*

**Author:** THORNE, Robert (University College London)

**Presenter:** THORNE, Robert (University College London)

**Session Classification:** PDF Session II

Contribution ID: 75

Type: **not specified**

## Review of recent HERA data

*Tuesday 23 August 2011 14:25 (30 minutes)*

**Author:** WING, Matthew (UCL)

**Presenter:** WING, Matthew (UCL)

**Session Classification:** PDF Session II

Contribution ID: 76

Type: **not specified**

## Overview of the FFNS and VFNS in DIS

*Tuesday 23 August 2011 14:55 (30 minutes)*

**Author:** JIMENES-DELGADO, Pedro (ITP Zurich)

**Presenter:** JIMENES-DELGADO, Pedro (ITP Zurich)

**Session Classification:** PDF Session II

Contribution ID: 77

Type: **not specified**

## **ACOT in the NNLO**

*Tuesday 23 August 2011 17:25 (30 minutes)*

**Author:** NADOLSKY, Pavel (SMU)

**Presenter:** NADOLSKY, Pavel (SMU)

**Session Classification:** PDF Session II

Contribution ID: 78

Type: **not specified**

## **VFNS in the MSTW fit**

*Tuesday 23 August 2011 16:25 (30 minutes)*

**Author:** THORNE, Robert (UCL)

**Presenter:** THORNE, Robert (UCL)

**Session Classification:** PDF Session II



Contribution ID: 79

Type: **not specified**

## **Running-mass definition in the heavy-quark electroproduction**

*Tuesday 23 August 2011 16:55 (30 minutes)*

**Author:** ALEKHIN, Sergey (Protvino)

**Presenter:** ALEKHIN, Sergey (Protvino)

**Session Classification:** PDF Session II

Contribution ID: **80**

Type: **not specified**

## **NNLO corrections to the heavy-quark electroproduction**

*Tuesday 23 August 2011 15:25 (30 minutes)*

**Author:** BLUEMLEIN, Johannes (DESY)

**Presenter:** BLUEMLEIN, Johannes (DESY)

**Session Classification:** PDF Session II

Contribution ID: **81**

Type: **not specified**

## Overview of Alpha\_s measurement

*Thursday 25 August 2011 14:30 (30 minutes)*

**Author:** BLUEMLEIN, Johannes (DESY)

**Presenter:** BLUEMLEIN, Johannes (DESY)

**Session Classification:** PDF Session IV

Contribution ID: 82

Type: **not specified**

## **Determination of $\alpha_s$ from event shapes**

*Thursday 25 August 2011 15:00 (30 minutes)*

**Author:** BECHER, Thomas

**Presenter:** BECHER, Thomas (Bern)

**Session Classification:** PDF Session IV

Contribution ID: **83**

Type: **not specified**

## **Value of Alpha\_s from the HERA data**

*Thursday 25 August 2011 15:30 (30 minutes)*

**Author:** RADESCU, Voica (Heidelberg Physikalisches Institut)

**Presenter:** RADESCU, Voica (Heidelberg Physikalisches Institut)

**Session Classification:** PDF Session IV

Contribution ID: 84

Type: **not specified**

## Value of Alpha\_s from the NNPDF fit

*Thursday 25 August 2011 16:30 (30 minutes)*

**Author:** BALL, Richard

**Presenter:** BALL, Richard (Edinburgh)

**Session Classification:** PDF Session IV

Contribution ID: 85

Type: **not specified**

## **Benchmarking of fitting codes**

*Thursday 25 August 2011 17:00 (30 minutes)*

**Author:** HUSTON, Joey

**Presenter:** HUSTON, Joey (MSU)

**Session Classification:** PDF Session IV

Contribution ID: **86**

Type: **not specified**

## **Benchmarking of the PDFs and Alpha\_s correlation**

*Thursday 25 August 2011 17:30 (30 minutes)*

**Author:** HUSTON, Joey

**Presenter:** HUSTON, Joey (MSU)

**Session Classification:** PDF Session IV



Contribution ID: 87

Type: **not specified**

## **Discussion on the NLO/NNLO PDFs bechmarking**

*Thursday 25 August 2011 19:30 (1h 30m)*

**Session Classification:** PDF Session IV

Contribution ID: **88**

Type: **not specified**

## **Discussion**

*Monday 22 August 2011 19:30 (1h 30m)*

**Session Classification:** PDF Session I

Contribution ID: **89**

Type: **not specified**

## **Discussion**

*Tuesday 23 August 2011 19:25 (1h 30m)*

**Session Classification:** PDF Session II

Contribution ID: **90**

Type: **not specified**

## **Discussion**

*Thursday 25 August 2011 15:00 (10 minutes)*

**Session Classification:** Hard QCD session IV

Contribution ID: 91

Type: **not specified**

## **Next 5 years of QCD measurements at the LHC (discussion)**

*Thursday 25 August 2011 17:25 (30 minutes)*

**Session Classification:** Hard QCD session IV

Contribution ID: 92

Type: **not specified**

## Soft QCD results from LHCb

*Thursday 25 August 2011 14:00 (30 minutes)*

**Author:** CONTU, Andrea (University of Oxford)

**Presenter:** CONTU, Andrea (University of Oxford)

**Session Classification:** Soft QCD Session III

Contribution ID: 93

Type: **not specified**

## **Comments on CKKW-L and truncated showers**

*Thursday 25 August 2011 15:50 (10 minutes)*

**Author:** PRESTEL, Stefan (Lund)

**Presenter:** PRESTEL, Stefan (Lund)

**Session Classification:** Hard QCD session IV

Contribution ID: **94**

Type: **not specified**

## **Coffee break**

*Thursday 25 August 2011 16:00 (20 minutes)*

**Session Classification:** Hard QCD session IV