

Institute of Physics: Nuclear and Particle physics divisional conference 2007

Report of Contributions

Contribution ID: 0

Type: **not specified**

W/Z cross-sections at the Tevatron

Tuesday 3 April 2007 16:00 (15 minutes)

Author: PAUL TELFORD (Manchester)

Presenter: PAUL TELFORD (Manchester)

Session Classification: Parallel 5: Electroweak

Contribution ID: 1

Type: **not specified**

Measurement of the $W + n\text{Jet}$ cross-section at CDF

Tuesday 3 April 2007 16:15 (15 minutes)

Author: BEN COOPER (UCL)

Presenter: BEN COOPER (UCL)

Session Classification: Parallel 5: Electroweak

Contribution ID: 2

Type: **not specified**

W charge asymmetry with Run II data at CDF

Tuesday 3 April 2007 16:30 (15 minutes)

Author: CIGDEM ISSEVER (Oxford)

Presenter: CIGDEM ISSEVER (Oxford)

Session Classification: Parallel 5: Electroweak

Contribution ID: 3

Type: **not specified**

WW scattering at ATLAS

Tuesday 3 April 2007 16:45 (15 minutes)

Author: SARAH ALLWOOD (Manchester)

Presenter: SARAH ALLWOOD (Manchester)

Session Classification: Parallel 5: Electroweak

Contribution ID: 4

Type: **not specified**

Search for dimuon events with the H1 detector at HERA

Tuesday 3 April 2007 17:00 (15 minutes)

Author: AWEYS MOHAMED (Liverpool)

Presenter: AWEYS MOHAMED (Liverpool)

Session Classification: Parallel 5: Electroweak

Contribution ID: 5

Type: **not specified**

Tau to pi pi0 nu_tau at BABAR

Tuesday 3 April 2007 17:15 (15 minutes)

Author: MITCHELL NAISBIT (Manchester)

Presenter: MITCHELL NAISBIT (Manchester)

Session Classification: Parallel 5: Electroweak

Contribution ID: 6

Type: **not specified**

Direct extraction of QCD Lambda \overline{MS} from Moments of DIS structure functions

Tuesday 3 April 2007 11:30 (15 minutes)

Author: PAUL BROOKS (Durham)

Presenter: PAUL BROOKS (Durham)

Session Classification: Parallel 1: QCD 1

Contribution ID: 7

Type: **not specified**

Gluon Saturation in the Colour Dipole Model

Tuesday 3 April 2007 11:45 (15 minutes)

Author: GRAHAM SHAW (Manchester)

Presenter: GRAHAM SHAW (Manchester)

Session Classification: Parallel 1: QCD 1

Contribution ID: 8

Type: **not specified**

Gaps between Jets in the High Energy Limit

Tuesday 3 April 2007 12:00 (15 minutes)

Author: ALBRECHT KYRIELEIS (Manchester)

Presenter: ALBRECHT KYRIELEIS (Manchester)

Session Classification: Parallel 1: QCD 1

Contribution ID: 9

Type: **not specified**

Exclusive Double Diffraction at the Tevatron and LHC

Tuesday 3 April 2007 12:15 (15 minutes)

Author: JAMES MONK (Manchester)

Presenter: JAMES MONK (Manchester)

Session Classification: Parallel 1: QCD 1

Contribution ID: **10**

Type: **not specified**

The underlying event in jet physics at TeV colliders

Tuesday 3 April 2007 12:30 (15 minutes)

Author: ARTHUR MORAES (Glasgow)

Presenter: ARTHUR MORAES (Glasgow)

Session Classification: Parallel 1: QCD 1

Contribution ID: 11

Type: **not specified**

Jet Energy Scale Issues at D0

Tuesday 3 April 2007 12:45 (15 minutes)

Author: LYDIA LOBO (Imperial)

Presenter: LYDIA LOBO (Imperial)

Session Classification: Parallel 1: QCD 1

Contribution ID: 12

Type: **not specified**

Pentaquarks from Lattice QCD

Wednesday 4 April 2007 11:30 (15 minutes)

Author: KEISUKE JIMMY JUGE (Trinity College Dublin)

Presenter: KEISUKE JIMMY JUGE (Trinity College Dublin)

Session Classification: Parallel 10: QCD3 & Detector R&D 3

Contribution ID: 13

Type: **not specified**

Photon Calibration of the CMS ECAL

Wednesday 4 April 2007 11:45 (15 minutes)

Author: MAIKO TAKAHASHI (Imperial)

Presenter: MAIKO TAKAHASHI (Imperial)

Session Classification: Parallel 10: QCD3 & Detector R&D 3

Contribution ID: 14

Type: **not specified**

Analysis of a File Catalogue for the LHC Computing Grid

Wednesday 4 April 2007 12:00 (15 minutes)

Author: CAITRIANA NICHOLSON (Glasgow)

Presenter: CAITRIANA NICHOLSON (Glasgow)

Session Classification: Parallel 10: QCD3 & Detector R&D 3

Contribution ID: 15

Type: **not specified**

Wide Bandgap Semiconductors for use as Radiation Hard Detectors

Wednesday 4 April 2007 12:15 (15 minutes)

Author: JAMES GRANT (Glasgow)

Presenter: JAMES GRANT (Glasgow)

Session Classification: Parallel 10: QCD3 & Detector R&D 3

Contribution ID: 16

Type: **not specified**

Gallium Nitride UV Detectors for Synchrotron-based protein structure studies

Wednesday 4 April 2007 12:30 (15 minutes)

Author: ANDREW BLUE (Glasgow)

Presenter: ANDREW BLUE (Glasgow)

Session Classification: Parallel 10: QCD3 & Detector R&D 3

Contribution ID: 17

Type: **not specified**

Strange Particle Production at Zeus

Tuesday 3 April 2007 16:00 (15 minutes)

Author: ANDREW COTTRELL (Oxford)

Presenter: ANDREW COTTRELL (Oxford)

Session Classification: Parallel 6: QCD 2

Contribution ID: **18**

Type: **not specified**

Quark-Gluon Plasma and Baryogenesis

Tuesday 3 April 2007 16:15 (15 minutes)

Author: DMITRI GRIGORIEV (Maynooth)

Presenter: DMITRI GRIGORIEV (Maynooth)

Session Classification: Parallel 6: QCD 2

Contribution ID: 19

Type: **not specified**

Heavy Ion Physics at the NA57 experiment at CERN

Tuesday 3 April 2007 16:30 (15 minutes)

Author: PAUL BACON (Birmingham)

Presenter: PAUL BACON (Birmingham)

Session Classification: Parallel 6: QCD 2

Contribution ID: 20

Type: **not specified**

Search for excited quark production at H1

Tuesday 3 April 2007 16:45 (15 minutes)

Author: ANDY RIMMER (Liverpool)

Presenter: ANDY RIMMER (Liverpool)

Session Classification: Parallel 6: QCD 2

Contribution ID: 21

Type: **not specified**

First results on Beauty production using HERA II data at ZEUS

Tuesday 3 April 2007 17:00 (15 minutes)

Author: SILVIA MIGLIORANZI (UCL)

Presenter: SILVIA MIGLIORANZI (UCL)

Session Classification: Parallel 6: QCD 2

Contribution ID: 22

Type: **not specified**

The ATLAS B Physics Programme

Tuesday 3 April 2007 17:15 (15 minutes)

Author: JAMES CATMORE (Lancaster)

Presenter: JAMES CATMORE (Lancaster)

Session Classification: Parallel 6: QCD 2

Contribution ID: 23

Type: **not specified**

Determining the Gluon PDF at HERA

Tuesday 3 April 2007 17:30 (15 minutes)

Author: CHRISTOPHER TARGETT-ADAMS (UCL)

Presenter: CHRISTOPHER TARGETT-ADAMS (UCL)

Session Classification: Parallel 6: QCD 2

Contribution ID: 24

Type: **not specified**

The LHCb Ring Imaging Cherenkov Detectors

Tuesday 3 April 2007 16:00 (15 minutes)

Author: JAMES STOREY (Cambridge)

Presenter: JAMES STOREY (Cambridge)

Session Classification: Parallel 7: Detector R&D 2

Contribution ID: 25

Type: **not specified**

LHCb RICH mirror optics

Tuesday 3 April 2007 16:15 (15 minutes)

Author: ALEX MUIR (Bristol)

Presenter: ALEX MUIR (Bristol)

Session Classification: Parallel 7: Detector R&D 2

Contribution ID: 26

Type: **not specified**

Pixel Hybrid Photon Detectors for the RICH Detectors at LHCb

Tuesday 3 April 2007 16:30 (15 minutes)

Author: LAURA SOMERVILLE (Oxford)

Presenter: LAURA SOMERVILLE (Oxford)

Session Classification: Parallel 7: Detector R&D 2

Contribution ID: 27

Type: **not specified**

An overview of the LHCb RICH1 Magnetic Shielding Design

Tuesday 3 April 2007 16:45 (15 minutes)

Author: RICHARD PLACKETT (Imperial)

Presenter: RICHARD PLACKETT (Imperial)

Session Classification: Parallel 7: Detector R&D 2

Contribution ID: 28

Type: **not specified**

Research towards a possible upgrade of the LHCb Vertex Locator

Tuesday 3 April 2007 17:00 (15 minutes)

Author: ALISON BATES (Glasgow)

Presenter: ALISON BATES (Glasgow)

Session Classification: Parallel 7: Detector R&D 2

Contribution ID: 29

Type: **not specified**

Current and Future Neutrino Physics

Wednesday 4 April 2007 14:00 (45 minutes)

Author: YOSHI UCHIDA (Imperial)

Presenter: YOSHI UCHIDA (Imperial)

Session Classification: PLENARY: From Here to There

Contribution ID: 30

Type: **not specified**

QCD: From Tevatron to LHC

Wednesday 4 April 2007 14:45 (45 minutes)

Author: JAMES STIRLING (IPPP, Durham)

Presenter: JAMES STIRLING (IPPP, Durham)

Session Classification: PLENARY: From Here to There

Contribution ID: 34

Type: **not specified**

The Dark Side of the Universe: An Astrophysical Perspective

Tuesday 3 April 2007 14:00 (45 minutes)

Author: JOE SILK (Oxford)

Presenter: JOE SILK (Oxford)

Session Classification: PLENARY: His Dark Materials

Contribution ID: 35

Type: **not specified**

Can particle physics shed light on the dark secrets of the universe?

Tuesday 3 April 2007 14:45 (45 minutes)

Author: JOHN ELLIS (CERN)

Presenter: JOHN ELLIS (CERN)

Session Classification: PLENARY: His Dark Materials

Contribution ID: **36**

Type: **not specified**

Electroweak Physics

Wednesday 4 April 2007 09:30 (30 minutes)

Author: MARTIN GRUNEWALD (UCD)

Presenter: MARTIN GRUNEWALD (UCD)

Session Classification: PLENARY: Reviews of Current Experimental Results

Contribution ID: 37

Type: **not specified**

B physics

Wednesday 4 April 2007 10:00 (30 minutes)

Author: FRANCESCA DI LODOVICO (QMUL)

Presenter: FRANCESCA DI LODOVICO (QMUL)

Session Classification: PLENARY: Reviews of Current Experimental Results

Contribution ID: **38**

Type: **not specified**

Exotic exotics

Wednesday 4 April 2007 10:30 (30 minutes)

Author: TRACEY PRATT (Liverpool)

Presenter: TRACEY PRATT (Liverpool)

Session Classification: PLENARY: Reviews of Current Experimental Results

Contribution ID: 39

Type: **not specified**

B^0 to $\pi^0\pi^0$ and the CKM angle α

Tuesday 3 April 2007 16:00 (15 minutes)

Author: CARLOS CHAVEZ (Liverpool)

Presenter: CARLOS CHAVEZ (Liverpool)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 40

Type: **not specified**

The decay B^- to $D^0 K^*$ and the CKM angle γ in BABAR

Tuesday 3 April 2007 16:15 (15 minutes)

Author: PAUL JACKSON (RHUL)

Presenter: PAUL JACKSON (RHUL)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 41

Type: **not specified**

Dalitz Plot analysis of B^+ to K^+K^- at BABAR

Tuesday 3 April 2007 16:30 (15 minutes)

Author: MATTHEW BARRETT (Birmingham)

Presenter: MATTHEW BARRETT (Birmingham)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 42

Type: **not specified**

Amplitude analysis of B^+ to $K^+\pi^+\pi^-$ at BABAR

Tuesday 3 April 2007 16:45 (15 minutes)

Author: TOM LATHAM (Warwick)

Presenter: TOM LATHAM (Warwick)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 43

Type: **not specified**

B⁺ to K⁺K⁻π⁺ at BABAR

Tuesday 3 April 2007 17:00 (15 minutes)

Author: JAMES BURKE (Bristol)

Presenter: JAMES BURKE (Bristol)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 44

Type: **not specified**

Radiative Penguin Decays at BABAR

Tuesday 3 April 2007 17:15 (15 minutes)

Author: DEBBIE BARD (Edinburgh)

Presenter: DEBBIE BARD (Edinburgh)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 45

Type: **not specified**

Branching Fraction measurement of D_{s^+} to $K^+\pi^0$ at BABAR

Tuesday 3 April 2007 17:30 (15 minutes)

Author: MICHAEL NIKOLICH (Imperial)

Presenter: MICHAEL NIKOLICH (Imperial)

Session Classification: Parallel 4: Flavour Physics 1

Contribution ID: 46

Type: **not specified**

Light cone distribution amplitude, B-physics, QCD

Wednesday 4 April 2007 11:30 (15 minutes)

Author: ANGELIQUE TALBOT (IPPP Durham)

Presenter: ANGELIQUE TALBOT (IPPP Durham)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 47

Type: **not specified**

Opposite Side Flavor Tagging at D0

Wednesday 4 April 2007 11:45 (15 minutes)

Author: PHILIP LEWIS (Imperial College)

Presenter: PHILIP LEWIS (Imperial College)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 48

Type: **not specified**

Inclusive Vub measurements in BABAR

Wednesday 4 April 2007 12:00 (15 minutes)

Author: ROBERTO SACCO (QMUL)

Presenter: ROBERTO SACCO (QMUL)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 49

Type: **not specified**

B_s physics at CDF

Wednesday 4 April 2007 12:15 (15 minutes)

Author: SINEAD FARRINGTON (Liverpool)

Presenter: SINEAD FARRINGTON (Liverpool)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 50

Type: **not specified**

Branching Fraction and Time Dependent Analysis of $B^0 \rightarrow \rho^- K^+ \pi^-$

Wednesday 4 April 2007 12:30 (15 minutes)

Author: IAN FORSTER (Liverpool)

Presenter: IAN FORSTER (Liverpool)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 51

Type: **not specified**

Measurement of the mass of B_c

Wednesday 4 April 2007 12:45 (15 minutes)

Author: PETER BUSSEY (Glasgow)

Presenter: PETER BUSSEY (Glasgow)

Session Classification: Parallel 8: Flavour Physics 2

Contribution ID: 52

Type: **not specified**

Welcome & introduction

Wednesday 4 April 2007 13:30 (5 minutes)

Session Classification: IOP AGM

Contribution ID: 53

Type: **not specified**

Chairperson's report

Wednesday 4 April 2007 13:35 (5 minutes)

Session Classification: IOP AGM

Contribution ID: 54

Type: **not specified**

Secretary's report

Wednesday 4 April 2007 13:40 (5 minutes)

Session Classification: IOP AGM

Contribution ID: 55

Type: **not specified**

Elections (see newsletter item)

Wednesday 4 April 2007 13:45 (5 minutes)

Session Classification: IOP AGM

Contribution ID: 56

Type: **not specified**

Other business

Wednesday 4 April 2007 13:50 (5 minutes)

Session Classification: IOP AGM

Contribution ID: 57

Type: **not specified**

Search for crypto-exotic states in BABAR

Wednesday 4 April 2007 11:30 (15 minutes)

Author: DANIEL SHERWOOD (Brunel)

Presenter: DANIEL SHERWOOD (Brunel)

Session Classification: Parallel 9: New Physics

Contribution ID: 58

Type: **not specified**

Searches for the $\Theta(1540)^+$ strange pentaquark candidate in BABAR

Wednesday 4 April 2007 11:45 (15 minutes)

Author: JON COLEMAN (Liverpool)

Presenter: JON COLEMAN (Liverpool)

Session Classification: Parallel 9: New Physics

Contribution ID: 59

Type: **not specified**

Neutrino masses in lepton number violating MSSM

Wednesday 4 April 2007 12:00 (15 minutes)

Author: STEVEN RIMMER (Durham)

Presenter: STEVEN RIMMER (Durham)

Session Classification: Parallel 9: New Physics

Contribution ID: **60**

Type: **not specified**

Searches for new physics in high mass at CDF and ATLAS

Wednesday 4 April 2007 12:15 (15 minutes)

Author: MUGE KARAGOZ UNEL (Oxford)

Presenter: MUGE KARAGOZ UNEL (Oxford)

Session Classification: Parallel 9: New Physics

Contribution ID: 61

Type: **not specified**

Search for associated chargino-neutralino production in three-lepton events at CDF

Wednesday 4 April 2007 12:30 (15 minutes)

Author: MARTIN GRIFFITHS (Liverpool)

Presenter: MARTIN GRIFFITHS (Liverpool)

Session Classification: Parallel 9: New Physics

Contribution ID: 62

Type: **not specified**

Searching for Gluino-Gluino bound states at ATLAS

Wednesday 4 April 2007 12:45 (15 minutes)

Author: ANNE SMALL (Lancaster)

Presenter: ANNE SMALL (Lancaster)

Session Classification: Parallel 9: New Physics

Contribution ID: **63**

Type: **not specified**

The DRIFT Dark Matter Experiment

Tuesday 3 April 2007 11:30 (15 minutes)

Author: JENNIE DAVIES (Sheffield)

Presenter: JENNIE DAVIES (Sheffield)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: 64

Type: **not specified**

Search for Neutral Supersymmetric Higgs Bosons at D0

Tuesday 3 April 2007 11:45 (15 minutes)

Author: TIM SCANLON (Imperial)

Presenter: TIM SCANLON (Imperial)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: 65

Type: **not specified**

Higgs searches at CMS

Tuesday 3 April 2007 12:00 (15 minutes)

Author: ROB FRAZIER (Bristol)

Presenter: ROB FRAZIER (Bristol)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: 66

Type: **not specified**

Invisible Higgs at the CMS detector

Tuesday 3 April 2007 12:15 (15 minutes)

Author: SIMON METSON (Bristol)

Presenter: SIMON METSON (Bristol)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: 67

Type: **not specified**

Studying a Light Higgs Boson in ATLAS

Tuesday 3 April 2007 12:30 (15 minutes)

Author: SCOTT MCGARVIE (RHUL)

Presenter: SCOTT MCGARVIE (RHUL)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: 68

Type: **not specified**

Jet Clustering Effects in the $t\bar{t}h$, $h \rightarrow b\bar{b}$ channel at ATLAS

Tuesday 3 April 2007 12:45 (15 minutes)

Author: CHRISTIAN SHAW (Glasgow)

Presenter: CHRISTIAN SHAW (Glasgow)

Session Classification: Parallel 3: Dark Matter / Higgs

Contribution ID: **69**

Type: **not specified**

MICE

Tuesday 3 April 2007 11:30 (15 minutes)

Author: LARA HOWLETT (Sheffield)

Presenter: LARA HOWLETT (Sheffield)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 70

Type: **not specified**

Scintillating Fibre Tracker for MICE

Tuesday 3 April 2007 11:45 (15 minutes)

Author: MALCOLM ELLIS (Imperial)

Presenter: MALCOLM ELLIS (Imperial)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 71

Type: **not specified**

The MINOS calibration system

Tuesday 3 April 2007 12:00 (15 minutes)

Author: PHILIP SYMES (Sussex)

Presenter: PHILIP SYMES (Sussex)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 72

Type: **not specified**

A Laser-Wire for the Linear Collider

Tuesday 3 April 2007 12:15 (15 minutes)

Author: NICOLAS DELERUE (Oxford)

Presenter: NICOLAS DELERUE (Oxford)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 73

Type: **not specified**

Charge Transfer Inefficiency Studies for Future CCD Vertex Detector

Tuesday 3 April 2007 12:30 (15 minutes)

Author: JAMES WALDER (Lancaster)

Presenter: JAMES WALDER (Lancaster)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 74

Type: **not specified**

The CMS tracker front end readout electronics

Tuesday 3 April 2007 12:45 (15 minutes)

Author: JAMES LEAVER (Imperial)

Presenter: JAMES LEAVER (Imperial)

Session Classification: Parallel 2: Detector R&D 1

Contribution ID: 75

Type: **not specified**

Welcome

Tuesday 3 April 2007 08:50 (10 minutes)

Presenter: PROF. JOHN TURNER

Session Classification: PLENARY Session 1

Contribution ID: 76

Type: **not specified**

Developments in particle accelerators

Tuesday 3 April 2007 09:00 (45 minutes)

Presenter: PROF. KEN PEACH

Session Classification: PLENARY Session 1

Contribution ID: 77

Type: **not specified**

The multinational facility for antiproton and ion research (FAIR)

Tuesday 3 April 2007 09:45 (45 minutes)

Presenter: PROF. HANS GUTBROD

Session Classification: PLENARY Session 1