Downloaded from UvA-DARE, the institutional repository of the University of Amsterdam (UvA)
http://dare.uva.nl/document/104851

File ID	104851
Filename	Bibliography

SOURCE (OR PART OF THE FOLLOWING SOURCE):

Type	Dissertation
Title	Measurement of charm production in deep inelastic scattering at HERA II
Author	T.G. Grigorescu
Faculty	Faculty of Science
Year	2008
Pages	vi, 168
ISBN	9789064880308

FULL BIBLIOGRAPHIC DETAILS:
http://dare.uva.nl/record/271134

Copyright

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use.

UvA-DARE is a service provided by the library of the University of Amsterdam (http://dare.uva.nl)

Bibliography

[1] G. Miller et al., *Inelastic Electron-Proton Scattering at Large Momentum Transfers*, Phys. Rev. **D 5** (1972) 528.

[2] M. Gell-Man, *A schematic model of baryons and mesons*, Phys. Lett. **8** (1964) 214.

[3] G. Zweig, *An SU3 model for strong interaction symmetry and its breaking*, 1964, CERN TH-412 (unpublished).

[4] M. Althoff et al.[TASSO collaboration], *Measurement of the Structure Function F2(γ) At Q^2 from $7\,GeV^2$ to $70\,GeV^2$*, Z. Phys. **C 31** (1986) 527.

[5] S. Bethke, *Experimental Tests of Asymptotic Freedom*, [hep-ex/0606035 v2].

[6] G. Altarelli and G. Parisi, *Asymptotic Freedom in parton language*, Nucl. Phys. **B 126** (1977) 298.

[7] A.D. Martin, W.J. Stirling, R.S. Thorne, and G. Watt, *Update of parton distributions at NNLO*, Phys. Lett. **B 652** (2007) 292, [arXiv:0706.0459].

[8] A.D. Martin et al., *MRST2001: Partons and α_s from precise deep inelastic scattering and Tevatron jet data*, Eur. Phys. J. **C 73** (2002) 73, [hep-ph/0110215].

[9] J. Pumplin et al., *New generation of parton distributions with uncertainties from global QCD analysis*, JHEP **207** (2002) 12, [hep-ph/0201195].

[10] E. Laenen, S. Riemersma, J. Smith, and W.L. van Neerven, *Complete $\mathcal{O}(\alpha_s)$ corrections to heavy flavor structure functions in electroproduction*, Nucl. Phys. **B 392** (1993) 162.

[11] S. Chekanov et al. [ZEUS Collab.], *Measurement of Charm Fragmentation Ratios and Fractions in Photoproduction at HERA*, Eur. Phys. J. **C 44** (2005) 351, [hep-ex/0508019].

[12] D. E. Groom et al.[Particle Data Group Collab.], *Review of Particle Physics*, Eur. Phys. J. **C 15** (2000) 1, [http://pdg.lbl.gov].

[13] U. Holm (ed.) ZEUS collab., *The ZEUS detector*, Status report (unpublished), DESY 1993 [http://www-zeus.desy.de/bluebook/bluebook.html].

[14] M. Derrick et al., *Design and construction of the ZEUS barrel calorimeter*, Nucl. Instr. Meth. **A 309** (1991) 77.

[15] A. Andresen et al.[ZEUS Calorimeter Group Collab.], *Construction and beam test of the ZEUS forward and rear*

calorimeter, Nucl. Inst. Meth. **A 309** (1991) 101.

[16] A. Bernstein et al.[ZEUS Barrel Calorimeter Group Collab.], *Beam tests of the ZEUS barrel calorimeter*, Nucl. Inst. Meth. **A 336** (1993) 23.

[17] N. Harnew et al., *Vertex triggering using time difference measurements in the ZEUS Central Tracking Detector*, Nucl. Inst. Meth. **A 279** (1989) 290.

[18] B. Foster et al. [ZEUS collab.], *The design and construction of the ZEUS Central Tracking Detector*, Nucl. Inst. Meth. **A 338** (1994) 254.

[19] D. Dannheim et al., *Design and tests of the silicon sensors for the ZEUS microvertex detector*, 2003, [hep-ex/0211026].

[20] R. E. Kalman, *A new approach to linear fitting and prediction problems*, Transactions of the ASME-Journal of Basic Engineering **82** (1960) 35.

[21] R. Fruchwirth, *Application of Kalman filtering to track and vertex fitting*, Nuclear Instruments and Methods in Physics Research **A 262** (1987) 444.

[22] E. Maddox, *Study of Heavy Quark Production at HERA using the ZEUS microvertex detector*, Ph.D. thesis, NIKHEF, 2004.

[23] ZEUS collaboration, *The design and performance of the ZEUS Micro Vertex detector*, Nucl. Inst. Meth. **A 581** (2007) 656, [arXiv:/abs/0708.3011].

[24] Nikhef Institute, *Mechanical Design of the Micro Vertex Detector*, [http://www.nikhef.nl/pub/departments/mt/projects/zeus/vertex/website.html].

[25] T. Matsushita et al., *Optical Alignment System for the ZEUS Micro Vertex Detector*, Nucl. Inst. Meth. **A 466** (2001) 383.

[26] K. Korsak-Gorzo et al., *The optical alignment system of the ZEUS microvertex detector*, Nucl. Inst. Meth. **A 580** (2007) 1227, [doi:10.1016/j.nima.2007.06.046].

[27] Zeus collab., *ZEUS Lectures*, [http://www-zeus.desy.de/lectures/].

[28] R. Luchsinger and C. Grab, *Vertex reconstruction by means of the method of Kalman filtering*, Computer Physics Communications **76** (1993) 263.

[29] A. Keramydas, Ph.D. thesis, NIKHEF, to be published.

[30] S.M. Fisher and M. Palazzi, *The ADAMO data system*, 1993.

[31] H. Abramowicz, A. Caldwell, and R. Sinkus, *Neural network based electron identification in the Zeus calorimeter*, Nucl. Inst. Meth. **A 365** (1995) 508.

[32] A. Lopez-Duran Viani and S. Schlenstedt, *Electron finder efficiencies and impurities. A comparison between SINISTRA95, EM and EMNET*, [ZEUS note 99-077, 2000].

[33] S. Schagen, *Charm in the proton*, Ph.D. thesis, NIKHEF, 2004.

[34] N. Tuning, *Proton Structure Functions at HERA*, Ph.D. thesis, NIKHEF, 2001.

[35] S. Bentvelsen, J. Engelen, and P. Kooijman, *Reconstruction of (x,Q^2) and extraction of structure functions in neutral current scattering at HERA*, Proc. Workshop on Physics at HERA **Vol. 1** (1992) , (eds.) W. Buchmuller and G. Ingelman, Hamburg, Germany, DESY.

[36] http://root.cern.ch.

[37] G. Corcella et al., *HERWIG 6.3 release note*, [hep-ph/0107071] .

[38] G. Corcella et al., *HERWIG 6.1 release note*, [hep-ph/9912396] .

[39] T. Sjostrand, P. Eden, C. Friberg, L. Lonnblad, G. Miu, S. Mrenna, and E. Norrbin, *High-energy-physics event generation with PYTHIA 6.1*, 2001, [hep-ph/9601282].

[40] H. L. Lai et al.[CTEQ Collaboration], *Global QCD analysis of parton structure of the nucleon: CTEQ5 parton distributions*, 2000, [hep-ph/9903282].

[41] M. Gluck, E. Reya, and A. Vogt, *Parton structure of the photon beyond the leading order*, Phys. Rev. **D 45** (1992) 3986.

[42] R. Brun, F. Bruyant, M. Maire, A.C. McPherson, and P. Zanarini, *GEANT3*, Internal report CERN DD/EE/84-1.

[43] *The Particle Data Group*, [http://pdg.lbl.gov/].

[44] The ROOT Math library team, *The Minuit Package*, [http://project-mathlibs.web.cern.ch/project-mathlibs/sw/Minuit2/html/index.html].

[45] S. Chekanov et al. [ZEUS collab.], *Measurement of charm fragmentation ratio's and fractions in photoproduction at HERA*, Eur. Phys. J. **C 44** (2005) 351.

[46] ZEUS collab., *Measurement of the D+ lifetime with the ZEUS Micro-Vertex-Detector at HERA-II*, submitted to ICHEP 2006[http://www-zeus.desy.de/physics/hfla /public/PublicResults/].

[47] ZEUS collab., *Measurements of charm fragmentation fractions and ratios in deep inelastic scattering at HERA*, JHEP **7** (2007) 74, [doi:10.1088/1126-6708/2007/07/074].

[48] B. W. Harris and J. Smith, *Heavy-quark correlations in deep-inelastic electroproduction*, Nucl. Phys. **B 452** (1995) 109, [hep-ph/9503484v1].

[49] C. Peterson, D. Schlatter, I. Schmitt, and P. M. Zerwas, *Scaling violations in inclusive e^+e^- annihilation spectra* , Phys. Rev. **D 27** (1983) 105.

[50] R. Akers et al.[OPAL Collab.], *A measurement of the Production of D^* Mesons on the Z^0 resonance*, Z. Phys. **C 67** (1995) 27.

[51] S. Chekanov et al. [ZEUS Collab.], *Measurement of the neutral current cross section and F2 structure function for deep inelastic e^+p scattering at HERA*, Eur. Phys. J. **C 21** (2001) 443.