

# Markus Wobisch

## *Publications*

(status: June 10, 2005)

### **Principal Author of Journal Publications by a Collaboration**

- [1] DØ Collaboration, V. Abazov et al., *Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. Lett. 94 (2005) 221801.
- [2] H1 Collaboration, C. Adloff et al., *Three-Jet Production in Deep-Inelastic Scattering at HERA*, Phys. Lett. B515 (2001) 17.
- [3] H1 Collaboration, C. Adloff et al., *Measurement and QCD Analysis of Jet Cross Sections in Deep-Inelastic Positron-Proton Collisions at  $\sqrt{s}$  of 300 GeV*, Eur. Phys. J. C19 (2001) 289.
- [4] H1 Collaboration, C. Adloff et al., *Measurement of Internal Jet Structure in Dijet Production in Deep Inelastic Scattering at HERA*, Nucl. Phys. B545 (1999) 3.

### **Publications not associated with an experimental Collaboration**

- [5] C. Duprel, Th. Hadig, N. Kauer and M. Wobisch, *Comparison of Next-to-Leading Order Calculations for Jet Cross Sections in Deep-Inelastic Scattering*, Proceedings of the HERA Monte Carlo Workshop, eds. G. Grindhammer, G. Ingelman, H. Jung, T. Doyle, DESY-PROC-02-1999 (1999) 142, hep-ph/9910448.
- [6] M. Wobisch and T. Wengler, *Hadronization Corrections to Jet Cross Sections in Deep-Inelastic Scattering*, Proceedings of the HERA Monte Carlo Workshop, eds. G. Grindhammer, G. Ingelman, H. Jung, T. Doyle, DESY-PROC-02-1999 (1999) 270, hep-ph/9907280.
- [7] M. Wobisch, *Investigation of QED Processes with Hard Photon Radiation in Deep-Inelastic Scattering in the H1 Experiment at HERA*, Diplom Thesis (in German), RWTH Aachen, Germany, PITHA 95/38 (1995).  
<http://www-h1.desy.de/psfiles/theses/h1th-023.ps>
- [8] M. Wobisch, *Measurement and QCD Analysis of Jet Cross Sections in Deep-Inelastic Positron-Proton Collisions at  $\sqrt{s} = 300$  GeV*, Doctoral Thesis, RWTH Aachen, Germany (2000).  
<http://www-h1.desy.de/psfiles/theses/h1th-201.ps>

### **Conference Proceedings**

- [9] M. Wobisch, *Recent Run II Results from DØ*, Proceedings of the 15th Topical Conference on Hadron Collider Physics, HCP 2004, Michigan State University, East Lansing, Michigan (2004), ed. H. Weerts, AIP Conf.Proc.753 (2005) 92.
- [10] M. Wobisch, *Three-Jet Production in Deep Inelastic Scattering*, Proceeding of the 9th International Workshop on Deep Inelastic Scattering (DIS2001), Bologna, Italy, April 27 – May 1, 2001, eds. G. Bruni, G. Iacobucci, R. Nania, World Scientific (2002).

- [11] M. Wobisch, *Direct Determination of the Gluon Density in the Proton from Jet Cross Sections in Deep-Inelastic Scattering*, Proceedings of the 7th International Workshop on Deep Inelastic Scattering and QCD (DIS99), Zeuthen, Germany, eds. J. Blümlein, T. Riemann, Nucl. Phys. Proc. Suppl. 79 (1999) 478.
- [12] M. Wobisch, *QCD Tests in Hadronic Final States*, Proceedings of the International Conference on High Energy Physics, ICHEP '98, Vancouver, Canada, eds. A. Astbury, D. Axen, J. Robinson (1998) Vol.1, 742.
- [13] M. Wobisch, *Progress in the Understanding of Dijet Production in DIS*, Proceedings of the 6th International Workshop on Deep Inelastic Scattering and QCD (DIS98), Brussels, Belgium, eds. G.H. Coremans, R. Rosen (1998) 568.
- [14] M. Wobisch, *H1 Results on High  $p_T$  Hadronic Final States in DIS*, Proceedings of the 5th International Workshop on Deep Inelastic Scattering and QCD (DIS 97), Chicago, Illinois, eds. J. Repond and D. Krakauer (1997) 699.

**Principal Author of Conference Papers**

- [15] DØ Collaboration, *High  $p_T$  Cross Section For Mu-Tagged Jets in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, preliminary results for Winter Conferences (2005).
- [16] DØ Collaboration, *Measurement of the Inclusive Jet Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, preliminary results for Winter Conferences (2005).
- [17] DØ Collaboration, *Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, preliminary results for Winter Conferences (2004).
- [18] DØ Collaboration, *Measurement of Inclusive Jet and Dijet Cross Sections in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, preliminary results for Winter Conferences (2004).
- [19] H1 Collaboration, *A Simultaneous, Direct Determination of  $\alpha_s$  and the Gluon Density in the Proton in a QCD Fit to DIS Jet Data*, Contributed Paper 1000, 30th International Conference on High Energy Physics (ICHEP2000), Osaka, Japan (2000).
- [20] H1 Collaboration, *Study of Three-Jet Production in Deep-Inelastic Positron Proton Collisions at HERA*, Contributed Paper 157, International Europhysics Conference on High Energy Physics (HEP99), Tampere, Finland (1999).
- [21] H1 Collaboration, *Determination of the Strong Coupling Constant from the Inclusive Jet Cross Section in Deep-Inelastic Positron-Proton Collisions at HERA*, Contributed Paper 157, International Europhysics Conference on High Energy Physics (HEP99), Tampere, Finland (1999).
- [22] H1 Collaboration, *Measurement of Internal Jet Structure in Dijet Production in Deep-Inelastic Scattering*, Contributed Paper 532, 29th International Conference on High Energy Physics (ICHEP98), Vancouver, Canada (1998).
- [23] H1 Collaboration, *Measurement of Dijet Cross Sections in Deep-Inelastic Scattering at HERA and a Direct Determination of the Gluon Density in the Proton*, Contributed Paper 520, 29th International Conference on High Energy Physics (ICHEP98), Vancouver, Canada (1998).

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- [22] H1 Collaboration, S. Aid et al., *Strangeness Production in Deep Inelastic Positron-Proton Scattering at HERA*, Nucl. Phys. B480 (1996) 3.
- [23] H1 Collaboration, C. Adloff et al., *Inclusive  $D^0$  and  $D^{*\pm}$  Production in Deep-Inelastic  $ep$  Scattering at HERA*, Z. Phys. C72 (1996) 593.
- [24] H1 Collaboration, S. Aid et al., *Charged Particle Multiplicities in Deep-Inelastic Scattering at HERA*, Z. Phys. C72 (1996) 573.
- [25] H1 Collaboration, S. Aid et al., *Search for Excited Fermions with the H1 Detector*, Nucl. Phys. B483 (1997) 44.
- [26] H1 Collaboration, C. Adloff et al., *Measurement of Charged Particle Transverse Momentum Spectra in Deep-Inelastic Scattering*, Nucl. Phys. B485 (1997) 3.
- [27] H1 Collaboration, S. Aid et al., *Scale Influence on the Energy Dependence of Photon-Proton Cross Sections*, Phys. Lett. B392 (1997) 234.
- [28] H1 Collaboration, C. Adloff et al., *Determination of the Longitudinal Proton Structure Function  $F_L(x, Q^2)$  at Low  $x$* , Phys. Lett. 393B (1997) 452.
- [29] H1 Collaboration, C. Adloff et al., *Diffraction Dissociation in Photoproduction at HERA*, Z. Phys. C74 (1997) 221.
- [30] H1 Collaboration, C. Adloff et al., *Observation of Events at Very High  $Q^2$  in  $ep$  Collisions at HERA*, Z. Phys. C74 (1997) 191.
- [31] H1 Collaboration, C. Adloff et al., *A Measurement of the Proton Structure Function  $F_2(x, Q^2)$  at low  $x$  and low  $Q^2$  at HERA*, Nucl. Phys. B497 (1997) 3.
- [32] H1 Collaboration, C. Adloff et al., *Bose-Einstein Correlations in Deep Inelastic  $ep$  Scattering at HERA*, Z. Phys. C75 (1997) 437.
- [33] H1 Collaboration, C. Adloff et al., *Proton Dissociative  $\rho$  and Elastic  $\phi$  Electroproduction at HERA*, Z. Phys. C75 (1997) 607.
- [34] H1 Collaboration, C. Adloff et al., *Photoproduction of  $K^0$  and  $\Lambda$  at HERA and a Comparison with Deep Inelastic Scattering*, Z. Phys. C76 (1997) 213.
- [35] H1 Collaboration, C. Adloff et al., *Measurement of Event Shape Variables in Deep Inelastic  $ep$  Scattering*, Phys. Lett. B406 (1997) 256.
- [36] H1 Collaboration, C. Adloff et al., *Evolution of  $ep$  Fragmentation and Multiplicity Distributions in the Breit Frame*, Nucl. Phys. B 504 (1997) 3.
- [37] H1 Collaboration, C. Adloff et al., *Inclusive Measurement of Diffractive Deep-Inelastic  $ep$  Scattering*, Z. Phys. C76 (1997) 613.
- [38] H1 Collaboration, C. Adloff et al., *Measurement of the Inclusive Di-Jet Cross Section in Photoproduction and Determination of an Effective Parton Distribution in the Photon*, Eur. Phys. J. C1 (1998) 97.

- [39] H1 Collaboration, C. Adloff et al., *Low  $Q^2$  Jet Production at HERA and Virtual Photon Structure*, Phys. Lett. B415 (1997) 418.
- [40] H1 Collaboration, C. Adloff et al., *Thrust Jet Analysis of Deep-Inelastic Large-Rapidity-Gap Events*, Eur. Phys. J. C1 (1998) 495.
- [41] H1 Collaboration, C. Adloff et al., *Photo-production of  $\psi(2S)$  Mesons at HERA*, Phys. Lett. B421 (1998) 385.
- [42] H1 Collaboration, C. Adloff et al., *Hadron Production in Diffractive Deep Inelastic Scattering*, Phys. Lett. B428 (1998) 206.
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- [44] H1 Collaboration, C. Adloff et al., *Observation of Events with an Isolated High Energy Lepton and Missing Transverse Momentum at HERA*, Eur. Phys. J. C5 (1998) 575.
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- [51] H1 Collaboration, C. Adloff et al., *Measurement of Leading Proton and Neutron Production in Deep Inelastic Scattering at HERA*, Eur. Phys. J. C6 (1999) 587.
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- [84] H1 Collaboration, C. Adloff et al., *Measurement of Dijet Cross Sections in Photoproduction at HERA*, Eur. Phys. J C25 (2002) 13.
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### All Publications with the DØ Collaboration

- [97] DØ Collaboration, V. Abazov et al., *Search for Doubly-charged Higgs Boson Pair Production in the Decay to  $\mu\mu\mu\mu$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. Lett. 93, 141801 (2004).
- [98] DØ Collaboration, V. Abazov et al., *Observation and Properties of the  $X(3872)$  Decaying to  $J/\psi \pi^+\pi^-$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. Lett. 93, 162002 (2004).
- [99] DØ Collaboration, V. Abazov et al., *Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at DZero*, Phys. Rev.Lett. 94, 041801 (2005).
- [100] DØ Collaboration, V. Abazov et al., *Measurement of the  $B_s^0$  Lifetime in the Exclusive Decay Channel  $B_s^0 \rightarrow J/\psi \phi$* , Phys. Rev. Lett. 94, 042001 (2005).
- [101] DØ Collaboration, V. Abazov et al., *A Search for the Flavor-Changing Neutral Current Decay  $B_s^0 \rightarrow \mu\mu$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. Lett. 94, 071802 (2005).
- [102] DØ Collaboration, V. Abazov et al., *Measurement of the Ratio of  $B^+$  and  $B^0$  Meson Lifetimes*, accepted by Phys. Rev. Lett.
- [103] DØ Collaboration, V. Abazov et al., *Measurement of the Lambda-B Lifetime in the Decay  $\Lambda\text{-}B \rightarrow J/\psi \Lambda$  With the DØ Detector*, Phys. Rev. Lett. 94, 102001 (2005).
- [104] DØ Collaboration, V. Abazov et al., *A Search for  $Wbb$  and  $WH$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. Lett. 94, 091802 (2005).
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- [108] DØ Collaboration, V. Abazov et al., *First measurement of  $\sigma(pp\bar{p} \rightarrow Z) \times Br(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. D 71, 072004 (2005).
- [109] DØ Collaboration, V. Abazov et al., *Search for First-Generation Scalar Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. D Rapid Comm. 71, 071104(R) (2005).

- [110] DØ Collaboration, V. Abazov et al., *Measurement of the  $p\bar{p} \rightarrow W\gamma + X$  Cross section and Limits on Anomalous  $WW\gamma$  Couplings at  $\sqrt{s} = 1.96$  TeV*, Phys. Rev. D Rapid. Comm. 71, 091108 (2005).
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- [114] DØ Collaboration, V. Abazov et al., *Study of  $Z\gamma$  events and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV*, submitted to Phys. Rev. Lett.
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- [118] DØ Collaboration, V. Abazov et al., *Measurement of the  $t\bar{t}$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton plus jets events with lifetime  $b$ -tagging*, submitted to Phys. Rev. Lett.
- [119] DØ Collaboration, V. Abazov et al., *Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons*, submitted to Phys. Rev. Lett.
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