

Andrew Robert Baden

Physics Department, University of Maryland
College Park, MD 20742 (301) 405-5046
<http://www.physics.umd.edu/hep/drew>

Education

B.A. in History	University of Wisconsin, Madison, WI	1976
B.S. in Physics	San Francisco State University, San Francisco, CA	1981
PhD. in Physics	University of California, Berkeley, CA	1986

Professional Experience

Chairman Physics Department, University of Maryland	2006 - present
Professor of Physics University of Maryland	2004 - present
Associate Chairman, Facilities and Personnel Physics Department, University of Maryland	1999 - 2006
Associate Professor of Physics University of Maryland	1995 - 2004
Assistant Professor of Physics University of Maryland	1990 - 1995
Assistant Research Scientist University of Maryland	1989 - 1990
Postdoctoral Research Associate Physics Department, Harvard University	1986 - 1989
Graduate Research Assistant Physics Department, University of California, Berkeley	1981 - 1986

Recognition

Fellow, American Association for the Advancement of Science	2012
Graduate Research Board Fellowship, University of Maryland	2005
Fellow, American Physical Society	2005
SSC Fellowship, Texas National Research Laboratory Commission	1991
Faculty Award for Teaching Excellence, UC. Berkeley, DuPont Corp	1981

Research Grant Summary

High Energy Accelerator Colliding Beam User Group	US DOE	1989 - present
Co-PI Database Computing for the SSC	US DOE	1992 - 1994
Co-PI National Scalable Cluster Project	NSF	1994 - 2002
PI DZero Level 2 Transceiver	FNAL	1998 - 2002
PI CMS HCAL Back-End Electronics	FNAL	1998 - present

Publications “Other”

1. **“Results Of A Search For Fractional Charges On Mercury Drops”**
C. L. Hodges, P. Abrams, A. R. Baden, R. W. Bland, D. C. Joyce, J. P. Royer, F. W. Walters and E. G. Wilson *et al.*. Phys. Rev. Lett. **47**, 1651 (1981).
2. **“Momentum Transfer To The Target In Peripheral Collisions Of Relativistic Heavy Ions”**
S. B. Kaufman, M. S. Freedman, D. J. Henderson, E. P. Steinberg, B. D. Wilkins, A. R. Baden, H. H. Gutbrod and M. R. Maier *et al.*. Phys. Rev. C **26**, 2694 (1982).
3. **“Fission And Deep Spallation Characteristics In Relativistic Nuclear Collisions”**
A. I. Warwick, A. R. Baden, H. H. Gutbrod, M. R. Maier, J. Peter, H. G. Ritter, H. Stelzer and H. H. Wieman *et al.*. Phys. Rev. Lett. **48**, 1719 (1982).
4. **“The Plastic Ball Spectrometer: An Electronic 4 Pi Detector With Particle Identification”**
A. R. Baden *et al.* [GSI-LBL Collaboration]. Nucl. Instrum. Meth. **203**, 189 (1982).
5. **“Jets and kinematics in hadronic collisions”**
A. R. Baden. Int. J. Mod. Phys. A **13**, 1817 (1998).

Publications Mark II Collaboration

6. **“Measurement of the Lifetime of Bottom Hadrons”**
N. Lockyer, J. Jaros, M. E. Nelson, G. S. Abrams, D. Amidei, A. R. Baden, C. A. Blocker and A. Boyarski *et al.*
10.1103/PhysRevLett.51.1316
Phys. Rev. Lett. **51**, 1316 (1983).
7. **“Weak Neutral Currents in e^+e^- Collisions at $\sqrt{s}=29\text{-GeV}$ ”**
M. E. Levi, C. A. Blocker, J. Strait, G. S. Abrams, D. Amidei, A. R. Baden, A. Boyarski and M. Breidenbach *et al.*
10.1103/PhysRevLett.51.1941
Phys. Rev. Lett. **51**, 1941 (1983).
8. **“A Search for Supersymmetric Electrons”**
L. D. Gladney, R. J. Hollebeek, B. LeClaire, G. S. Abrams, D. Amidei, A. R. Baden, A. Boyarski and M. Breidenbach *et al.*
10.1103/PhysRevLett.51.2253
Phys. Rev. Lett. **51**, 2253 (1983).
9. **“Study Of Heavy Quark Production With The Mark-II Detector At Pep”**
G. S. Abrams, D. Amidei, A. R. Baden, C. de la Vaissiere, G. Gidal, M. S. Gold, G. Goldhaber and L. Golding *et al.*

10. **“A Measurement of the D0 Lifetime”**
J. M. Yelton, L. D. Gladney, G. Goldhaber, G. S. Abrams, D. Amidei, A. R. Baden, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.52.2019
Phys. Rev. Lett. **52**, 2019 (1984).
11. **“An Upper Limit on the ν_τ Mass”**
C. Matteuzzi, G. S. Abrams, C. de la Vaissiere, D. Amidei, A. R. Baden, A. Boyarski, J. Boyer and M. Breidenbach *et al.*
10.1103/PhysRevLett.52.1869
Phys. Rev. Lett. **52**, 1869 (1984).
12. **“Inclusive production of vector mesons in e^+e^- annihilation at 29-GeV”**
H. Schellman, G. Trilling, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
13. **“Measurement of K^\pm and K^0 Inclusive Rates in e^+e^- Annihilation at 29-GeV”**
H. Schellman, G. Trilling, G. S. Abrams, D. Amidei, A. R. Baden, J. Boyer, F. Butler and J. B. Dillon *et al.*
10.1103/PhysRevD.31.3013
Phys. Rev. D **31**, 3013 (1985).
14. **“ Λ Production in e^+e^- Annihilation at 29-GeV”**
C. de la Vaissiere, V. Luth, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.54.2071
Phys. Rev. Lett. **54**, 2071 (1985), [Erratum-ibid. **55**, 263 (1985)].
15. **“Searches for Unstable Neutral Leptons in Low Multiplicity Events From Electron - Positron Annihilation”**
M. L. Perl, T. Barklow, A. Boyarski, M. Breidenbach, P. Burchat, D. L. Burke, J. Dorfan and G. J. Feldman *et al.*
10.1103/PhysRevD.32.2859
Phys. Rev. D **32**, 2859 (1985).
16. **“Charged Multiplicity of Hadronic Events Containing Heavy Quark Jets”**
P. C. Rowson, G. Trilling, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.54.2580
Phys. Rev. Lett. **54**, 2580 (1985).
17. **“An improved upper limit on tau-neutrino mass”**
C. Matteuzzi, G. S. Abrams, C. de la Vaissiere, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and

J. Boyer *et al.*.

10.1103/PhysRevD.32.800

Phys. Rev. D **32**, 800 (1985).

18. **“Search for Monojet Production in e^+e^- Annihilation”**

G. J. Feldman, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and M. Breidenbach *et al.*.

10.1103/PhysRevLett.54.2289

Phys. Rev. Lett. **54**, 2289 (1985).

19. **“Measurement of the Branching Fraction for $\tau^- \rightarrow 5\pi^\pm(\pi^0) \nu_\tau$ and an Upper Limit on the ν_τ Mass”**

P. Burchat, W. B. Schmidke, J. M. Yelton, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow and A. Boyarski *et al.*.

10.1103/PhysRevLett.54.2489

Phys. Rev. Lett. **54**, 2489 (1985).

20. **“Upper Limit of B^0 anti- B^0 mixing in e^+e^- Annihilation at 29-GeV”**

T. Schaad, M. E. Nelson, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*.

10.1016/0370-2693(85)91490-X

Phys. Lett. B **160**, 188 (1985).

21. **“Inclusive Charged Particle Distribution in Nearly Threefold Symmetric Three Jet Events at $e(\text{CM}) = 29\text{-GeV}$ ”**

A. Petersen, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and M. Breidenbach *et al.*.

10.1103/PhysRevLett.55.1954

Phys. Rev. Lett. **55**, 1954 (1985).

22. **“Measurement of the Branching Fractions $\tau^- \rightarrow \rho^- \nu_\tau$ and $\tau^- \rightarrow K^* - \nu_\tau$ ”**

J. M. Yelton, J. Dorfan, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*.

10.1103/PhysRevLett.56.812

Phys. Rev. Lett. **56**, 812 (1986).

23. **“Charged Meson Pair Production in $\gamma\gamma$ Interactions”**

J. Boyer, D. L. Burke, F. Butler, G. Gidal, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*.

10.1103/PhysRevLett.56.207

Phys. Rev. Lett. **56**, 207 (1986).

24. **“A study of noncollinear two charged particle events produced in 29-gev electron - positron annihilation”**

- M. L. Perl, L. Muller, T. Barklow, A. Boyarski, M. Breidenbach, P. Burchat, D. L. Burke and J. Dorfan *et al.*
10.1103/PhysRevD.34.3321
Phys. Rev. D **34**, 3321 (1986).
25. **“Measurement of the D^0 and D^+ Lifetimes”**
L. D. Gladney, J. Jaros, R. A. Ong, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow and A. Boyarski *et al.*
10.1103/PhysRevD.34.2601
Phys. Rev. D **34**, 2601 (1986).
26. **“Study of the Decay $\tau^- \rightarrow \pi^- \pi^- \pi^+ \nu_\tau$ ”**
W. B. Schmidke, G. S. Abrams, C. Matteuzzi, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.57.527
Phys. Rev. Lett. **57**, 527 (1986).
27. **“Measurement of the Branching Fractions of the τ Lepton Using a Tagged Sample of τ Decays”**
P. Burchat, G. J. Feldman, T. Barklow, A. Boyarski, D. L. Burke, J. Dorfan, L. D. Gladney and G. Hanson *et al.*
10.1103/PhysRevD.35.27
Phys. Rev. D **35**, 27 (1987).
28. **“A Comparison of the Particle Flow in Three Jet and Radiative Two Jet Events From e^+e^- Annihilation at $\sqrt{s}(\text{CM}) = 29\text{-GeV}$ ”**
P. D. Sheldon, G. Trilling, A. Petersen, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow and A. Boyarski *et al.*
10.1103/PhysRevLett.57.1398
Phys. Rev. Lett. **57**, 1398 (1986).
29. **“Observation of Ξ^- Production in e^+e^- Annihilation at 29-GeV”**
S. Klein, T. Himel, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.58.644
Phys. Rev. Lett. **58**, 644 (1987).
30. **“Limit on the Decay $D^0 \rightarrow e^\pm \mu^\mp$ ”**
K. Riles, J. Dorfan, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevD.35.2914
Phys. Rev. D **35**, 2914 (1987).
31. **“The Reactions $\gamma\gamma \rightarrow K^0 K^\pm \pi^\pm$ and $\gamma\gamma^* \rightarrow K^0 K^\pm \pi^\pm$ ”**
G. Gidal, J. Boyer, F. Butler, D. Cords, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*

32. **“Search for Heavy Neutrino Production at PEP”**
 C. Wendt, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and P. Burchat *et al.*
 10.1103/PhysRevLett.58.1810
 Phys. Rev. Lett. **58**, 1810 (1987).
33. **“Study of τ Decay Modes With Multiple Neutral Mesons in the Final States”**
 K. K. Gan, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and P. Burchat *et al.*
 10.1103/PhysRevLett.59.411
 Phys. Rev. Lett. **59**, 411 (1987).
34. **“Observation of a Spin 1 Resonance in the Reaction $\gamma\gamma^* \rightarrow K^0 K^\pm \pi^\mp$ ”**
 G. Gidal, J. Boyer, F. Butler, D. Cords, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*
 10.1103/PhysRevLett.59.2016
 Phys. Rev. Lett. **59**, 2016 (1987).
35. **“Observation of Spin 1 F1 (1285) in the Reaction $\gamma\gamma^* \rightarrow \text{Eta0 } \pi^+ \pi^-$ ”**
 G. Gidal, J. Boyer, F. Butler, D. Cords, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*
 10.1103/PhysRevLett.59.2012
 Phys. Rev. Lett. **59**, 2012 (1987).
36. **“Multi - Hadronic Events at E(c.m.) = 29-GeV and Predictions of QCD Models from E(c.m.) = 29-GeV to E(c.m.) = 93-GeV”**
 A. Petersen, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez, D. Amidei and A. R. Baden
et al.
 10.1103/PhysRevD.37.1
 Phys. Rev. D **37**, 1 (1988).
37. **“Measurement of the D0 Lifetime From the Upgraded Mark-II Detector at PEP”**
 S. R. Wagner, D. A. Hinshaw, R. A. Ong, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander and
 M. Alvarez *et al.*
 10.1103/PhysRevD.36.2850
 Phys. Rev. D **36**, 2850 (1987).
38. **“Upper Limit on the Branching Ratio for the Decay $\tau^- \rightarrow \pi^- \eta \nu_\tau$ ”**
 K. K. Gan, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and P. Burchat *et al.*
 10.1016/0370-2693(87)91056-2
 Phys. Lett. B **197**, 561 (1987).
39. **“Observation of Ω^- Production in e^+e^- Annihilation at 29-GeV”**
 S. Klein, T. Himel, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
 10.1103/PhysRevLett.59.2412
 Phys. Rev. Lett. **59**, 2412 (1987).

40. **“Determination of α_s From Energy-energy Correlations in e^+e^- Annihilation at 29-GeV”**
D. R. Wood, A. Petersen, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez and D. Amidei *et al.*
10.1103/PhysRevD.37.3091
Phys. Rev. D **37**, 3091 (1988).
41. **“Measurement of the Tau Lifetime”**
D. Amidei, G. Trilling, G. S. Abrams, A. R. Baden, J. Boyer, F. Butler, G. Gidal and M. S. Gold *et al.*
10.1103/PhysRevD.37.1750
Phys. Rev. D **37**, 1750 (1988).
42. **“Photon Photon Physics With The Mark-II At Pep”**
D. Cords, G. Gidal, J. Boyer, F. Butler, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*
43. **“Observation of ψ production in e^+e^- annihilation at 29-GeV”**
G. Wormser, R. A. Ong, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevD.38.1001
Phys. Rev. D **38**, 1001 (1988).
44. **“ η and η' Production in e^+e^- Annihilation at 29-GeV: Indications for the $D(s)^+$ - Decays Into $\eta\pi^\pm$ and $\eta'\pi^\pm$ ”**
G. Wormser, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and P. Burchat *et al.*
10.1103/PhysRevLett.61.1057
Phys. Rev. Lett. **61**, 1057 (1988).
45. **“Inclusive Lepton Production in e^+e^- Annihilation at 29-GeV”**
R. A. Ong, A. Weir, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.60.2587
Phys. Rev. Lett. **60**, 2587 (1988).
46. **“Bose-Einstein Correlations in e^+e^- Collisions”**
I. Juricic, G. Goldhaber, G. Gidal, G. S. Abrams, D. Amidei, A. R. Baden, J. Boyer and F. Butler *et al.*
10.1103/PhysRevD.39.1
Phys. Rev. D **39**, 1 (1989).
47. **“Measurement of single and double radiative low Q^2 Bhabha scattering at $E(\text{cm}) = 29\text{-GeV}$ ”**
D. Karlen, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski, J. Boyer and P. Burchat *et al.*
10.1103/PhysRevD.39.1861
Phys. Rev. D **39**, 1861 (1989).
48. **“A Refined Measurement of the B Hadron Lifetime”**
R. A. Ong, J. Jaros, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*

10.1103/PhysRevLett.62.1236

Phys. Rev. Lett. **62**, 1236 (1989).

49. **“Searches For Nonliminal Higgs Bosons From A Virtual Z Decaying Into A Muon Pair At Pep”**
S. Komamiya, C. Fordham, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez and D. Amidei *et al.*
10.1103/PhysRevD.40.721
Phys. Rev. D **40**, 721 (1989).
50. **“ $\Lambda(c)+$ Production and Semileptonic Decay in 29-GeV e^+e^- Annihilation”**
S. Klein, T. Himel, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevLett.62.2444
Phys. Rev. Lett. **62**, 2444 (1989).
51. **“The Mark-II Detector for the SLC”**
G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez, D. Averill, A. R. Baden and J. Ballam *et al.*
10.1016/0168-9002(89)91217-5
Nucl. Instrum. Meth. A **281**, 55 (1989).
52. **“Studies of Jet Production Rates in e^+e^- Annihilation at $e(\text{CM}) = 29\text{-GeV}$ ”**
S. Bethke, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez, A. R. Baden and J. Ballam *et al.*
10.1007/BF01506527
Z. Phys. C **43**, 325 (1989).
53. **“Search for B Decay to Higgs Bosons for Higgs Boson Masses Between 50-MeV/ c^2 and 210-MeV/ c^2 ”**
A. Snyder, W. N. Murray, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez and D. Amidei *et al.*
10.1016/0370-2693(89)90177-9
Phys. Lett. B **229**, 169 (1989).
54. **“Upper Limits on D^\pm and B^\pm Decays to Two Leptons Plus π^\pm or K^\pm ”**
A. J. Weir, S. R. Klein, G. Abrams, C. E. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez and D. Amidei *et al.*
10.1103/PhysRevD.41.1384
Phys. Rev. D **41**, 1384 (1990).
55. **“Search for a Nearly Degenerate Lepton Doublet (L^- , L_0)”**
K. Riles, M. L. Perl, T. Barklow, A. Boyarski, P. Burchat, D. L. Burke, J. Dorfan and G. J. Feldman *et al.*
10.1103/PhysRevD.42.1
Phys. Rev. D **42**, 1 (1990).

56. **“Measurement of the B0 Meson Lifetime”**
S. R. Wagner, D. A. Hinshaw, R. A. Ong, A. Snyder, G. S. Abrams, C. Adolphsen, C. Akerlof and J. P. Alexander *et al.*
10.1103/PhysRevLett.64.1095
Phys. Rev. Lett. **64**, 1095 (1990).
57. **“Radiative Tau Production and Decay”**
D. Y. Wu, K. G. Hayes, M. L. Perl, G. S. Abrams, D. Amidei, A. R. Baden, T. Barklow and A. Boyarski *et al.*
10.1103/PhysRevD.41.2339
Phys. Rev. D **41**, 2339 (1990).
58. **“A Reanalysis of B^0 - anti- B^0 mixing in e^+e^- Annihilation at 29-GeV”**
A. Weir, G. S. Abrams, C. Adolphsen, J. P. Alexander, M. Alvarez, D. Amidei, A. R. Baden and B. C. Barish *et al.*
10.1016/0370-2693(90)90447-E
Phys. Lett. B **240**, 289 (1990).
59. **“Study of Four Lepton Final States in e^+e^- Interactions at $\sqrt{s} = 29\text{-GeV}$ ”**
M. Petradza, R. Thun, G. Abrams, D. Amidei, A. R. Baden, T. Barklow, A. Boyarski and J. Boyer *et al.*
10.1103/PhysRevD.42.2171
Phys. Rev. D **42**, 2171 (1990).
60. **“A Search for Elastic Nondiagonal Lepton Pair Production in e^+e^- Annihilation at $\sqrt{s} = 29\text{-GeV}$ ”**
J. J. Gomez Cadenas, C. A. Heusch, G. S. Abrams, C. Adolphsen, C. Akerlof, J. P. Alexander, M. Alvarez and D. Amidei *et al.*
10.1103/PhysRevLett.66.1007
Phys. Rev. Lett. **66**, 1007 (1991).
61. **“Measurement of the Total Hadronic Cross-section in e^+e^- Annihilation at $\sqrt{s} = 29\text{-GeV}$ ”**
C. Von Zanthier *et al.* [MARK-II Collaboration].
10.1103/PhysRevD.43.34
Phys. Rev. D **43**, 34 (1991).
62. **“Two photon production of pion pairs”**
J. Boyer, F. Butler, G. Gidal, G. Abrams, D. Amidei, A. R. Baden, M. S. Gold and L. Golding *et al.*
10.1103/PhysRevD.42.1350
Phys. Rev. D **42**, 1350 (1990).
63. **“Measurement of the two photon width of the $\eta'(958)$ ”**
F. Butler, J. Boyer, G. Gidal, G. Abrams, D. Amidei, A. R. Baden, M. S. Gold and G. Goldhaber *et al.*
10.1103/PhysRevD.42.1368
Phys. Rev. D **42**, 1368 (1990).

64. **“A Search for the production of the final states $\tau^+\tau^-e^+e^-$, $\tau^+\tau^-\mu^+\mu^-$, and $\tau^+\tau^-\pi^+\pi^-$ in e^+e^- collisions at $\sqrt{s} = 29\text{-GeV}$ ”**
T. Barklow *et al.* [Mark-II Collaboration].
10.1103/PhysRevLett.68.13
Phys. Rev. Lett. **68**, 13 (1992).
65. **“Inclusive charged hadron and K0 production in two photon interactions”**
D. Cords, J. Boyer, F. Butler, G. Gidal, G. S. Abrams, D. Amidei, A. R. Baden and T. Barklow *et al.*.
10.1016/0370-2693(93)90406-8
Phys. Lett. B **302**, 341 (1993).

Publications CDF Collaboration

66. **“The CDF Detector: An Overview”**
F. Abe *et al.* [CDF Collaboration].
10.1016/0168-9002(88)90298-7
Nucl. Instrum. Meth. A **271**, 387 (1988).
67. **“Transverse Momentum Distributions of Charged Particles Produced in $\bar{p}p$ Interactions at $\sqrt{s} = 630\text{ GeV}$ and 1800 GeV ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.61.1819
Phys. Rev. Lett. **61**, 1819 (1988).
68. **“A measurement of W boson production in $1.8\text{ TeV } \bar{p}p$ collisions”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.62.1005
Phys. Rev. Lett. **62**, 1005 (1989).
69. **“Measurement of the inclusive jet cross-section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.62.613
Phys. Rev. Lett. **62**, 613 (1989).
70. **“Limits on the masses of supersymmetric particles from $1.8\text{ TeV } p\bar{p}$ collisions”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.62.1825
Phys. Rev. Lett. **62**, 1825 (1989).
71. **“Dijet angular distributions from $\bar{p}p$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.62.3020
Phys. Rev. Lett. **62**, 3020 (1989).

72. **“Search for Heavy Stable Particles in 1.8-TeV pp Collisions at the Fermilab Collider”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.63.1447
Phys. Rev. Lett. **63**, 1447 (1989).
73. **“Measurement of the mass and width of the Z^0 boson at the Fermilab Tevatron”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.63.720
Phys. Rev. Lett. **63**, 720 (1989).
74. **“A search for the top quark in the reaction $\bar{p}p \rightarrow e + \text{jets}$ at $\sqrt{s} = 1.8 \text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.64.142
Phys. Rev. Lett. **64**, 142 (1990).
75. **“A measurement of D^* production in jets from $\bar{p}p$ collisions at $\sqrt{s} = 1.8 \text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.64.348
Phys. Rev. Lett. **64**, 348 (1990).
76. **“Pseudorapidity distributions of charged particles produced in $\bar{p}p$ interactions at $\sqrt{s} = 630 \text{ GeV}$ and 1800 GeV ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.41.2330
Phys. Rev. D **41**, 2330 (1990).
77. **“Two jet differential cross-section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8 \text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.64.157
Phys. Rev. Lett. **64**, 157 (1990).
78. **“Measurement of the ratio $\sigma(W^- \rightarrow e\nu)/\sigma(Z^- \rightarrow ee)$ in $\bar{p}p$ collisions at $\sqrt{s} = 1.8 \text{ TeV}$ ”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.64.152
Phys. Rev. Lett. **64**, 152 (1990).
79. **“Search for a light Higgs boson at the Tevatron $p\bar{p}$ collider”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.41.1717
Phys. Rev. D **41**, 1717 (1990).
80. **“ K_s^0 production in $\bar{p}p$ interactions at $\sqrt{s} = 630 \text{ GeV}$ and 1800 GeV ”**
F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevD.40.3791
Phys. Rev. D **40**, 3791 (1989).

81. **“The Two jet invariant mass distribution at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.41.1722
Phys. Rev. D **41**, 1722 (1990).
82. **“Status of the top quark search at CDF”**
G. W. Foster *et al.* [CDF Collaboration].
10.1063/1.38897
AIP Conf. Proc. **196**, 354 (1989).
83. **“Search for New Heavy Quarks in Electron - Muon Events at the Fermilab Tevatron Collider”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.64.147
Phys. Rev. Lett. **64**, 147 (1990).
84. **“The Dijet invariant mass at the Tevatron collider”**
M. Dell’Orso *et al.* [CDF Collaboration].
85. **“Expression of Interest by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider”**
G. H. Trilling *et al.* [SDC Collaboration].
86. **“Jet fragmentation properties of $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.65.968
Phys. Rev. Lett. **65**, 968 (1990).
87. **“Top quark search in the electron + jet channel in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.43.664
Phys. Rev. D **43**, 664 (1991).
88. **“A Measurement of the W boson mass”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.65.2243
Phys. Rev. Lett. **65**, 2243 (1990).
89. **“A Measurement of the W boson mass in 1.8 TeV $\bar{p}p$ collisions”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.43.2070
Phys. Rev. D **43**, 2070 (1991).

90. **“Letter of Intent by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider”**
G. H. Trilling *et al.* [SDC Collaboration].
91. **“A Measurement of $\sigma B(W \rightarrow e\nu)$ and $\sigma B(Z^0 \rightarrow e^+e^-)$ in $\bar{p}p$ collisions at $\sqrt{s} = 1800$ GeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.44.29
Phys. Rev. D **44**, 29 (1991).
92. **“B physics at CDF”**
A. R. Baden *et al.* [CDF Collaboration].
93. **“Measurement of the W P(T) distribution in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.66.2951
Phys. Rev. Lett. **66**, 2951 (1991).
94. **“Measurement of QCD jet broadening in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.44.601
Phys. Rev. D **44**, 601 (1991).
95. **“A Determination of $\sin^2\theta$ from the forward - backward asymmetry in $p\bar{p} \rightarrow Z^0 X \rightarrow e^+e^-X$ interactions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.67.1502
Phys. Rev. Lett. **67**, 1502 (1991).
96. **“Measurement of the e^+e^- invariant mass distribution in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.67.2418
Phys. Rev. Lett. **67**, 2418 (1991).
97. **“Search for $W' \rightarrow e\nu$ and $W' \rightarrow \mu\nu$ in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.67.2609
Phys. Rev. Lett. **67**, 2609 (1991).
98. **“Inclusive jet cross-section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.68.1104
Phys. Rev. Lett. **68**, 1104 (1992).

99. **“The Topology of three jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.45.1448
Phys. Rev. D **45**, 1448 (1992).
100. **“A Lower limit on the top quark mass from events with two leptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.68.447
Phys. Rev. Lett. **68**, 447 (1992).
101. **“A Search for new gauge bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.68.1463
Phys. Rev. Lett. **68**, 1463 (1992).
102. **“Properties of events with large total transverse energy produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.45.2249
Phys. Rev. D **45**, 2249 (1992).
103. **“Measurement of the Z p_T distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.67.2937
Phys. Rev. Lett. **67**, 2937 (1991).
104. **“Lepton asymmetry in W decays from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.68.1458
Phys. Rev. Lett. **68**, 1458 (1992).
105. **“A Limit on the top quark mass from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.45.3921
Phys. Rev. D **45**, 3921 (1992).
106. **“Measurement of the ratio $\sigma B(W \rightarrow \nu_\tau)/\sigma B(W \rightarrow e\nu)$, in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.68.3398
Phys. Rev. Lett. **68**, 3398 (1992).
107. **“Measurement of $B^0\bar{B}^0$ mixing at the Fermilab Tevatron collider”**
F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.67.3351

Phys. Rev. Lett. **67**, 3351 (1991).

108. **“A Measurement of the B meson and b quark cross-sections at $\sqrt{s} = 1.8$ TeV using the exclusive decay $B^\pm \rightarrow J/\psi K^\pm$ ”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.68.3403

Phys. Rev. Lett. **68**, 3403 (1992).

109. **“Measurement of the isolated prompt photon cross-sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.68.2734

Phys. Rev. Lett. **68**, 2734 (1992).

110. **“A Measurement of the production and muonic decay rate of W and Z bosons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.69.28

Phys. Rev. Lett. **69**, 28 (1992).

111. **“Limits on the production of massive stable charged particles”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevD.46.R1889

Phys. Rev. D **46**, 1889 (1992).

112. **“The Dijet angular distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.69.2896

Phys. Rev. Lett. **69**, 2896 (1992).

113. **“Limit on the rare decay $W^\pm \rightarrow \gamma\pi^\pm$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.69.2160

Phys. Rev. Lett. **69**, 2160 (1992).

114. **“Search for squarks and gluinos from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.69.3439

Phys. Rev. Lett. **69**, 3439 (1992).

115. **“A Measurement of jet shapes in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.70.713

Phys. Rev. Lett. **70**, 713 (1993).

116. **“Inclusive J/ψ , $\psi(2S)$ and b quark production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.69.3704
Phys. Rev. Lett. **69**, 3704 (1992).
117. **“Search for $\Lambda_b \rightarrow J/\psi\Lambda^0$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.47.R2639
Phys. Rev. D **47**, 2639 (1993).
118. **“Comparison of jet production in $\bar{p}p$ collisions at $\sqrt{s} = 546$ GeV and 1800 GeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.70.1376
Phys. Rev. Lett. **70**, 1376 (1993).
119. **“Technical Design of a Detector (Solenoidal Detector) April 1, 1992 to be Operated at the Superconducting Super Collider”**
G. H. Trilling *et al.* [Solenoidal Detector Collaboration].
10.2172/7121463
120. **“Measurement of the cross-section for production of two isolated prompt photons in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.70.2232
Phys. Rev. Lett. **70**, 2232 (1993).
121. **“A Prompt photon cross-section measurement in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.48.2998
Phys. Rev. D **48**, 2998 (1993).
122. **“Measurement of the dijet mass distribution in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.48.998
Phys. Rev. D **48**, 998 (1993).
123. **“The Center-of-mass angular distribution of prompt photons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.71.679
Phys. Rev. Lett. **71**, 679 (1993).
124. **“Measurement of jet multiplicity in W events produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ –TeV”**
F. Abe *et al.* [CDF Collaboration].

10.1103/PhysRevLett.70.4042

Phys. Rev. Lett. **70**, 4042 (1993).

125. **“Measurement of the bottom quark production cross-section using semileptonic decay electrons in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.71.500
Phys. Rev. Lett. **71**, 500 (1993).
126. **“A Search for first generation leptoquarks in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.48.R3939
Phys. Rev. D **48**, 3939 (1993).
127. **“Measurement of Drell-Yan electron and muon pair differential cross-sections in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.49.R1
Phys. Rev. D **49**, 1 (1994).
128. **“Measurement of bottom quark production in 1.8 TeV $p\bar{p}$ collisions using semileptonic decay muons”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.71.2396
Phys. Rev. Lett. **71**, 2396 (1993).
129. **“Inclusive χ_c and b quark production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevLett.71.2537
Phys. Rev. Lett. **71**, 2537 (1993).
130. **“Study of four jet events and evidence for double parton interactions in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.47.4857
Phys. Rev. D **47**, 4857 (1993).
131. **“Top dilepton search at CDF”**
F. Abe *et al.* [CDF Collaboration].
132. **“Measurement of $\bar{p}p$ single diffraction dissociation at $\sqrt{s} = 546$ GeV and 1800 GeV”**
F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.50.5535
Phys. Rev. D **50**, 5535 (1994).

133. **“Measurement of small angle $\bar{p}p$ elastic scattering at $\sqrt{s} = 546$ GeV and 1800 GeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevD.50.5518
 Phys. Rev. D **50**, 5518 (1994).
134. **“Measurement of the $\bar{p}p$ total cross-section at $\sqrt{s} = 546$ GeV and 1800-GeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevD.50.5550
 Phys. Rev. D **50**, 5550 (1994).
135. **“Search for the top quark decaying to charged Higgs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevLett.72.1977
 Phys. Rev. Lett. **72**, 1977 (1994).
136. **“Evidence for color coherence in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevD.50.5562
 Phys. Rev. D **50**, 5562 (1994).
137. **“Analysis of jet charged particle momentum distributions for quark - gluon separation in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ -TeV”**
 F. Abe *et al.* [CDF Collaboration].
138. **“Observation of rapidity gaps in $\bar{p}p$ collisions at 1.8 TeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevLett.74.855
 Phys. Rev. Lett. **74**, 855 (1995).
139. **“Search for radiative decays of neutralinos in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
 F. Abe *et al.* [CDF Collaboration].
 10.1103/PhysRevLett.75.613
 Phys. Rev. Lett. **75**, 613 (1995).
140. **“Measurement of $W + \gamma$ and $Z + \gamma$ cross-sections in the electron and muon channels in $S^{(1/2)} = 1.8$ -TeV anti-P P collisions”**
 F. Abe *et al.* [CDF Collaboration].
141. **“ $b\bar{b}$ quark pair correlations in $p\bar{p}$ collisions at $S^{(1/2)} = 1.8$ -TeV”**
 F. Abe *et al.* [CDF Collaboration].
 Unpublished - incorporated into Phys.Rev. D55, 2546 (1997)
142. **“Measurement of the B meson and b quark cross-sections at $\sqrt{s} = 1.8$ TeV using the exclusive decay $B^0 \rightarrow J/\psi K^{*0}(892)$ ”**

F. Abe *et al.* [CDF Collaboration].
10.1103/PhysRevD.50.4252
Phys. Rev. D **50**, 4252 (1994).

143. **“Combination of CDF and D0 Results on W Boson Mass and Width”**
V. M. Abazov *et al.* [CDF and D0 Collaborations].
hep-ex/0311039
10.1103/PhysRevD.70.092008
Phys. Rev. D **70**, 092008 (2004)

Publications DØCollaboration

144. **“Beam tests of the D0 uranium liquid argon end calorimeters”**
S. Abachi *et al.* [D0 Collaboration].
10.1016/0168-9002(93)90965-K
Nucl. Instrum. Meth. A **324**, 53 (1993).
145. **“The D0 Detector”**
S. Abachi *et al.* [D0 Collaboration].
10.1016/0168-9002(94)91312-9
Nucl. Instrum. Meth. A **338**, 185 (1994).
146. **“First generation leptoquark search in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.72.965
Phys. Rev. Lett. **72**, 965 (1994).
147. **“E823 (D0 upgrade): Magnetic tracking”**
B. Gomez *et al.* [D0 Collaboration].
148. **“Search for the top quark with the D0 detector at the Fermilab collider”**
S. Abachi *et al.* [D0 Collaboration].
10.1063/1.45484
AIP Conf. Proc. **302**, 479 (1993).
149. **“Rapidity gaps between jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.72.2332
Phys. Rev. Lett. **72**, 2332 (1994).
150. **“Search for the top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.72.2138
Phys. Rev. Lett. **72**, 2138 (1994).

151. **“Search for high mass top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9411001
10.1103/PhysRevLett.74.2422
Phys. Rev. Lett. **74**, 2422 (1995)
152. **“Inclusive μ and B quark production cross-sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.74.3548
Phys. Rev. Lett. **74**, 3548 (1995).
153. **“Observation of the top quark”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9503003
10.1103/PhysRevLett.74.2632
Phys. Rev. Lett. **74**, 2632 (1995)
154. **“Search for W boson pair production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9503012
10.1103/PhysRevLett.75.1023
Phys. Rev. Lett. **75**, 1023 (1995)
155. **“Measurement of the $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9503010
10.1103/PhysRevLett.75.1028
Phys. Rev. Lett. **75**, 1028 (1995)
156. **“A Study of the strong coupling constant using W + jets processes”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.75.3226
Phys. Rev. Lett. **75**, 3226 (1995).
157. **“Measurement of the $WW\gamma$ gauge boson couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9505007
10.1103/PhysRevLett.75.1034
Phys. Rev. Lett. **75**, 1034 (1995)
158. **“Search for squarks and gluinos in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
10.1103/PhysRevLett.75.618
Phys. Rev. Lett. **75**, 618 (1995).

159. **“ W and Z boson production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9505013
10.1103/PhysRevLett.75.1456
Phys. Rev. Lett. **75**, 1456 (1995)
160. **“Second generation leptoquark search in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9507002
10.1103/PhysRevLett.75.3618
Phys. Rev. Lett. **75**, 3618 (1995)
161. **“Rapidity gaps between jets at D0”**
S. Abachi *et al.* [D0 Collaboration].
162. **“The D0 upgrade”**
S. Abachi *et al.* [D0 Collaboration].
10.1016/S0168-9002(98)00241-1
Nucl. Instrum. Meth. A **408**, 103 (1998).
163. **“Measurement of $B^0 - \bar{B}^0$ mixing using dimuons at D0”**
S. Abachi *et al.* [D0 Collaboration].
164. **“Measurement of inclusive triple differential dijet cross-section $d^3\sigma/dE(T) d(\eta_1) d(\eta_2)$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
165. **“Searches for new gauge bosons using the D0 detector”**
S. Abachi *et al.* [D0 Collaboration].
166. **“Search for squarks and gluinos in $p\bar{p}$ collisions at the D0 detector”**
S. Abachi *et al.* [D0 Collaboration].
167. **“Measurement of the upsilon cross-section at D0 using dimuons”**
S. Abachi *et al.* [D0 Collaboration].
168. **“Inclusive dimuon and B quark production cross-sections in $p\bar{p}$ collisions at $S^{(1/2)} = 1.8\text{-TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
169. **“Tests of QCD in W and Z production at Tevatron”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9508002
170. **“Single photon, photon jet and diphoton production at D0”**
S. Abachi *et al.* [D0 Collaboration].

171. **“Transverse energy distributions within jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
 S. Abachi *et al.* [D0 Collaboration].
 10.1016/0370-2693(95)00889-S
 Phys. Lett. B **357**, 500 (1995).
172. **“Limits on the anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
 S. Abachi *et al.* [D0 Collaboration].
173. **“Top quark search with the D0 1992 - 1993 data sample”**
 S. Abachi *et al.* [D0 Collaboration].
 10.1103/PhysRevD.52.4877
 Phys. Rev. D **52**, 4877 (1995).
174. **“Diphoton production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
 S. Abachi *et al.* [D0 Collaboration].
175. **“Search for fourth generation neutral heavy leptons”**
 S. Abachi *et al.* [D0 Collaboration].
176. **“Inclusive muon and B quark production cross-sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
 S. Abachi *et al.* [D0 Collaboration].
177. **“Studies of topological distributions of the three and four jet events in $\bar{p}p$ collisions at $\sqrt{s} = 1800$ -GeV with the D0 detector”**
 S. Abachi *et al.* [D0 Collaboration].
178. **“Search for W boson pair production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
 S. Abachi *et al.* [D0 Collaboration].
179. **“Studies of Topological Distributions of the Three- and Four-Jet Events in $\bar{p}p$ Collisions at $\sqrt{s} = 1800$ GeV with the D0 Detector”**
 S. Abachi *et al.* [D0 Collaboration].
 hep-ex/9509005
 10.1103/PhysRevD.53.6000
 Phys. Rev. D **53**, 6000 (1996)
180. **“ J/ψ production in $p\bar{p}$ collisions at $S^{(1/2)} = 1.8$ -TeV.”**
 S. Abachi *et al.* [D0 Collaboration].
181. **“Color coherent radiation in multi - jet events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV.”**
 S. Abachi *et al.* [D0 Collaboration].
182. **“Jet Production via Strongly-Interacting Color-Singlet Exchange in $p\bar{p}$ Collisions”**
 S. Abachi *et al.* [D0 Collaboration].

hep-ex/9509013

10.1103/PhysRevLett.76.734

Phys. Rev. Lett. **76**, 734 (1996)

183. **“Search for first and second generation leptoquarks at D0”**

S. Abachi *et al.* [D0 Collaboration].

184. **“Search for heavy W boson in 1.8 TeV $p\bar{p}$ collisions”**

S. Abachi *et al.* [D0 Collaboration].

10.1016/0370-2693(95)01029-P

Phys. Lett. B **358**, 405 (1995).

185. **“Search for light top squarks with the D0 detector”**

S. Abachi *et al.* [D0 Collaboration].

186. **“Transverse energy distributions within jets in $p\bar{p}$ collisions at $S^{(1/2)} = 1.8\text{-TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

187. **“Rapidity correlations between high p_T intermediate vector bosons and jets in $\bar{p}p$ collisions at $\sqrt{s} = 1.8\text{-TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

188. **“Rapidity dependence of the inclusive J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

189. **“Search for $\widetilde{W}_1\widetilde{Z}_2$ Production via Trilepton Final States in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

hep-ex/9512004

10.1103/PhysRevLett.76.2228

Phys. Rev. Lett. **76**, 2228 (1996)

190. **“Search for Right-Handed W Bosons and Heavy W' in $p\bar{p}$ Collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

hep-ex/9512007

10.1103/PhysRevLett.76.3271

Phys. Rev. Lett. **76**, 3271 (1996)

191. **“Search for light top squarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**

S. Abachi *et al.* [D0 Collaboration].

10.1103/PhysRevLett.76.2222

Phys. Rev. Lett. **76**, 2222 (1996).

192. **“A Study of the strong coupling constant using $W + \text{jets}$ processes”**

S. Abachi *et al.* [D0 Collaboration].

193. **“ J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{-TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
10.1016/0370-2693(96)00067-6
Phys. Lett. B **370**, 239 (1996).
194. **“The Azimuthal decorrelation of jets widely separated in rapidity”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9603010
10.1103/PhysRevLett.77.595
Phys. Rev. Lett. **77**, 595 (1996)
195. **“Isolated photon cross-section in the central and forward rapidity regions in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9603006
10.1103/PhysRevLett.77.5011
Phys. Rev. Lett. **77**, 5011 (1996)
196. **“Search for anomalous WW and WZ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9606013
10.1103/PhysRevLett.77.3303
Phys. Rev. Lett. **77**, 3303 (1996)
197. **“Measurement of the W boson mass”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9607011
10.1103/PhysRevLett.77.3309
Phys. Rev. Lett. **77**, 3309 (1996)
198. **“The Dijet mass spectrum and angular distributions with the D0 Detector”**
S. Abachi *et al.* [D0 Collaboration].
199. **“Rapidity gaps between jets at D0”**
S. Abachi *et al.* [D0 Collaboration].
200. **“A measurement of the ratio of $W + 1\text{jet}$ to $W + 0\text{jets}$ cross sections and comparisons to QCD”**
S. Abachi *et al.* [D0 Collaboration].
201. **“Direct photon measurements by the D0 experiment”**
S. Abachi *et al.* [D0 Collaboration].
202. **“Search for a fourth generation charge $-1/3$ quark via flavor changing neutral currents”**
S. Abachi *et al.* [D0 Collaboration].

203. **“Search for additional neutral gauge bosons”**
S. Abachi *et al.* [D0 Collaboration].
10.1016/0370-2693(96)00932-X
Phys. Lett. B **385**, 471 (1996).
204. **“Search for $b \rightarrow X\mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
205. **“The $b\bar{b}$ production cross section and correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
206. **“Small angle muon and b-quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
207. **“Inclusive jet cross section in $p\bar{p}$ collisions with the DØ detector”**
S. Abachi *et al.* [D0 Collaboration].
208. **“Rapidity dependence of the inclusive J/psi production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
209. **“SUGRA-GUT motivated SUSY search in the dielectron channel at D0”**
S. Abachi *et al.* [D0 Collaboration].
210. **“Search for squarks and gluinos in $p\bar{p}$ collisions at the DØ detector with the jets and missing energy signature”**
S. Abachi *et al.* [D0 Collaboration].
211. **“Results from a search for a neutral scalar produced in association with a W boson in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
212. **“Color coherence in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
213. **“Hard single diffractive jet production at D0”**
S. Abachi *et al.* [D0 Collaboration].
214. **“Search for chargino - neutralino associated production via tripletonic final states with the D0 detector”**
S. Abachi *et al.* [D0 Collaboration].
215. **“Search for a fourth generation charge -1/3 quark via flavor changing neutral current decay”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9611021
10.1103/PhysRevLett.78.3818
Phys. Rev. Lett. **78**, 3818 (1997)

216. **“Limits on anomalous $WW\gamma$ couplings from $p\bar{p} \rightarrow W\gamma + X$ events at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9612002
10.1103/PhysRevLett.78.3634
Phys. Rev. Lett. **78**, 3634 (1997)
217. **“Search for diphoton events with large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9612011
10.1103/PhysRevLett.78.2070
Phys. Rev. Lett. **78**, 2070 (1997)
218. **“Search for top squark pair production in the dielectron channel”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9612009
10.1103/PhysRevD.57.589
Phys. Rev. D **57**, 589 (1998)
219. **“Study of the $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $Z(\nu\nu)\gamma$ production”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9702011
10.1103/PhysRevLett.78.3640
Phys. Rev. Lett. **78**, 3640 (1997)
220. **“Direct measurement of the top quark mass”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9703008
10.1103/PhysRevLett.79.1197
Phys. Rev. Lett. **79**, 1197 (1997)
221. **“Studies of gauge boson pair production and trilinear couplings”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9704004
10.1103/PhysRevD.56.6742
Phys. Rev. D **56**, 6742 (1997)
222. **“Measurement of the top quark pair production cross section in $p\bar{p}$ collisions”**
S. Abachi *et al.* [D0 Collaboration].
hep-ex/9704015
10.1103/PhysRevLett.79.1203
Phys. Rev. Lett. **79**, 1203 (1997)

223. **“Limits on WWZ and $WW\gamma$ couplings from $p\bar{p} \rightarrow evjjX$ events at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9705010
10.1103/PhysRevLett.79.1441
Phys. Rev. Lett. **79**, 1441 (1997)
224. **“Search for the trilepton signature from the associated production of SUSY $\tilde{\chi}_1^\pm \tilde{\chi}_2^0$ gauginos”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9705015
10.1103/PhysRevLett.80.1591
Phys. Rev. Lett. **80**, 1591 (1998)
225. **“Color coherent radiation in multijet events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9706012
10.1016/S0370-2693(97)01190-8
Phys. Lett. B **414**, 419 (1997)
226. **“Measurement of the top quark mass using dilepton events”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9706014
10.1103/PhysRevLett.80.2063
Phys. Rev. Lett. **80**, 2063 (1998)
227. **“Measurement of dijet angular distributions and search for quark compositeness”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9707016
10.1103/PhysRevLett.80.666
Phys. Rev. Lett. **80**, 666 (1998)
228. **“Search for scalar leptoquark pairs decaying to electrons and jets in $\bar{p}p$ collisions”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9707033
10.1103/PhysRevLett.79.4321
Phys. Rev. Lett. **79**, 4321 (1997)
229. **“Experimental search for chargino and neutralino production via gauge mediated supersymmetry breaking models”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9708005
10.1103/PhysRevLett.80.442
Phys. Rev. Lett. **80**, 442 (1998)

230. **“Determination of the mass of the W boson using the DØ detector at the Tevatron”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9710007
10.1103/PhysRevD.58.012002
Phys. Rev. D **58**, 012002 (1998)
231. **“Search for first generation scalar leptoquark pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9710032
10.1103/PhysRevLett.80.2051
Phys. Rev. Lett. **80**, 2051 (1998)
232. **“Search for high mass photon pairs in $p\bar{p} \rightarrow \gamma\gamma jj$ events at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
233. **“Search for $ZX \rightarrow \nu n\bar{u}b\bar{b}$ events in the DØ detector”**
B. Abbott *et al.* [D0 Collaboration].
234. **“Search for new particles decaying to two jets with the D0 detector”**
B. Abbott *et al.* [D0 Collaboration].
235. **“The Dijet mass spectrum at D0”**
B. Abbott *et al.* [D0 Collaboration].
236. **“The Azimuthal decorrelation of jets widely separated in rapidity”**
B. Abbott *et al.* [D0 Collaboration].
237. **“Search for squarks and gluinos with the D0 detector”**
B. Abbott *et al.* [D0 Collaboration].
238. **“DØ results on W boson properties”**
B. Abbott *et al.* [D0 Collaboration].
239. **“Search for heavy neutral gauge bosons at D0”**
B. Abbott *et al.* [D0 Collaboration].
240. **“Color coherence in $W + \text{jet}$ events”**
B. Abbott *et al.* [D0 Collaboration].
241. **“Photon and diphoton production, and $k(T)$ effects”**
B. Abbott *et al.* [D0 Collaboration].
242. **“Measurements of trilinear gauge boson couplings”**
B. Abbott *et al.* [D0 Collaboration].

243. **“A measurement of the W boson mass”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9712028
 10.1103/PhysRevLett.80.3008
 Phys. Rev. Lett. **80**, 3008 (1998)
244. **“A measurement of the W boson mass”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9712029
 10.1103/PhysRevD.58.092003
 Phys. Rev. D **58**, 092003 (1998)
245. **“ $Z\gamma$ production in $\bar{p}p$ collisions $S^{(1/2)} = 1.8\text{-TeV}$ and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9710031
 10.1103/PhysRevD.57.R3817
 Phys. Rev. D **57**, 3817 (1998)
246. **“Direct measurement of the top quark mass at D0”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9801025
 10.1103/PhysRevD.58.052001
 Phys. Rev. D **58**, 052001 (1998)
247. **“Search for the decay $b \rightarrow X_s \mu^+ \mu^-$ ”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9801027
 10.1016/S0370-2693(98)00161-0
 Phys. Lett. B **423**, 419 (1998)
248. **“Measurement of the shape of the transverse momentum distribution of W bosons produced in $p\bar{p}$ collisions at $\sqrt{s} = 1.8\text{ TeV}$ ”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9803003
 10.1103/PhysRevLett.80.5498
 Phys. Rev. Lett. **80**, 5498 (1998)
249. **“Limits on $WW\gamma$ and WWZ couplings from W boson pair production”**
 B. Abbott *et al.* [D0 Collaboration].
 hep-ex/9803004
 10.1103/PhysRevD.58.051101
 Phys. Rev. D **58**, 051101 (1998)

250. **“Search for charge 1/3 third generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9803009
10.1103/PhysRevLett.81.38
Phys. Rev. Lett. **81**, 38 (1998)
251. **“Limits on anomalous $WW\gamma$ and WWZ couplings”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9803017
10.1103/PhysRevD.58.031102
Phys. Rev. D **58**, 031102 (1998)
252. **“A Search for heavy point - like Dirac monopoles”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9803023
10.1103/PhysRevLett.81.524
Phys. Rev. Lett. **81**, 524 (1998)
253. **“Determination of the absolute jet energy scale in the D0 calorimeters”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9805009
10.1016/S0168-9002(98)01368-0
Nucl. Instrum. Meth. A **424**, 352 (1999)
254. **“The dijet mass spectrum and a search for quark compositeness in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9807014
10.1103/PhysRevLett.82.2457
Phys. Rev. Lett. **82**, 2457 (1999)
255. **“The inclusive jet cross section in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9807018
10.1103/PhysRevLett.82.2451
Phys. Rev. Lett. **82**, 2451 (1999)
256. **“Small angle J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9807029
10.1103/PhysRevLett.82.35
Phys. Rev. Lett. **82**, 35 (1999)

257. **“Search for squarks and gluinos in single-photon events with jets and large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9808010
10.1103/PhysRevLett.82.29
Phys. Rev. Lett. **82**, 29 (1999)
258. **“Measurement of the top quark mass in the dilepton channel”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9808029
10.1103/PhysRevD.60.052001
Phys. Rev. D **60**, 052001 (1999)
259. **“Measurement of the top quark pair production cross section in $p\bar{p}$ collisions using multijet final states”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9808034
10.1103/PhysRevD.60.012001
Phys. Rev. D **60**, 012001 (1999)
260. **“Coloron limits using the D0 dijet angular distribution”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9809009
261. **“Probing hard color-singlet exchange in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9809016
10.1016/S0370-2693(98)01238-6
Phys. Lett. B **440**, 189 (1998)
262. **“Search for the trilepton signature from associated gaugino pair production”**
B. Abbott *et al.* [D0 Collaboration].
263. **“Experimental search for chargino and neutralino production in supersymmetry models with a light gravitino”**
B. Abbott *et al.* [D0 Collaboration].
264. **“Search for nonstandard Higgs bosons using high mass photon pairs in $p\bar{p} \rightarrow \gamma\gamma + 2\text{jets}$ at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9811029
10.1103/PhysRevLett.82.2244
Phys. Rev. Lett. **82**, 2244 (1999)

265. **“Measurement of the high mass Drell-Yan cross-section and limits on quark electron compositeness scales”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9812010
10.1103/PhysRevLett.82.4769
Phys. Rev. Lett. **82**, 4769 (1999)
266. **“Measurement of the top quark pair production cross-section in the all jets decay channel”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9901023
10.1103/PhysRevLett.83.1908
Phys. Rev. Lett. **83**, 1908 (1999)
267. **“Measurement of W and Z boson production cross sections”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9901040
10.1103/PhysRevD.60.052003
Phys. Rev. D **60**, 052003 (1999)
268. **“Search for squarks and gluinos in events containing jets and a large imbalance in transverse energy”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9902013
10.1103/PhysRevLett.83.4937
Phys. Rev. Lett. **83**, 4937 (1999)
269. **“Search for bottom squarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9903041
10.1103/PhysRevD.60.031101
Phys. Rev. D **60**, 031101 (1999)
270. **“Search for charged higgs bosons in decays of top quark pairs”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9902028
10.1103/PhysRevLett.82.4975
Phys. Rev. Lett. **82**, 4975 (1999)
271. **“Search for second generation leptoquark pairs decaying to $\mu\nu$ + jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9904023

10.1103/PhysRevLett.83.2896

Phys. Rev. Lett. **83**, 2896 (1999)

272. **“Studies of WW and WZ production and limits on anomalous $WW\gamma$ and WWZ couplings”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9905005

10.1103/PhysRevD.60.072002

Phys. Rev. D **60**, 072002 (1999)

273. **“The $b\bar{b}$ production cross section and angular correlations in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9905024

10.1016/S0370-2693(00)00844-3

Phys. Lett. B **487**, 264 (2000)

274. **“Extraction of the width of the W boson from measurements of $\sigma(p\bar{p} \rightarrow W + X) \times B(W \rightarrow e\nu)$ and $\sigma(p\bar{p} \rightarrow Z + X) \times B(Z \rightarrow ee)$ and their ratio”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9906025

10.1103/PhysRevD.61.072001

Phys. Rev. D **61**, 072001 (2000)

275. **“Measurement of the inclusive differential cross section for Z bosons as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9907009

10.1103/PhysRevD.61.032004

Phys. Rev. D **61**, 032004 (2000)

276. **“Search for R -parity violating supersymmetry in the dielectron channel”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9907019

10.1103/PhysRevLett.83.4476

Phys. Rev. Lett. **83**, 4476 (1999)

277. **“A new measurement of the W boson mass at DØ”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9907028

278. **“Small angle muon and bottom quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9907029

10.1103/PhysRevLett.84.5478

Phys. Rev. Lett. **84**, 5478 (2000)

279. **“Neural networks for analysis of top quark production”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9907041
280. **“Measurement of the transverse momentum distributions of W and Z bosons produced in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9907044
281. **“Subjet multiplicity in quark and gluon jets at D0”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9907059
10.1016/S0920-5632(99)00764-1
Nucl. Phys. Proc. Suppl. **79**, 494 (1999)
282. **“Evidence of color coherence effects in $W +$ jets events from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9908017
10.1016/S0370-2693(99)01015-1
Phys. Lett. B **464**, 145 (1999)
283. **“A measurement of the W boson mass using large rapidity electrons”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9908057
10.1103/PhysRevD.62.092006
Phys. Rev. D **62**, 092006 (2000)
284. **“Differential production cross section of Z bosons as a function of transverse momentum at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9909020
10.1103/PhysRevLett.84.2792
Phys. Rev. Lett. **84**, 2792 (2000)
285. **“A measurement of the W boson mass using electrons at large rapidities”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9909030
10.1103/PhysRevLett.84.222
Phys. Rev. Lett. **84**, 222 (2000)
286. **“Search for second generation leptoquark pairs in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/9910040

10.1103/PhysRevLett.84.2088

Phys. Rev. Lett. **84**, 2088 (2000)

287. **“The isolated photon cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912017

10.1103/PhysRevLett.84.2786

Phys. Rev. Lett. **84**, 2786 (2000)

288. **“Limits on quark compositeness from high-energy jets in $\bar{p}p$ collisions at 1.8 TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912023

10.1103/PhysRevD.62.031101

Phys. Rev. D **62**, 031101 (2000)

289. **“Probing BFKL dynamics in the dijet cross section at large rapidity intervals in $p\bar{p}$ collisions at $\sqrt{s} = 1800$ GeV and 630-GeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912032

10.1103/PhysRevLett.84.5722

Phys. Rev. Lett. **84**, 5722 (2000)

290. **“Limits on anomalous $WW\gamma$ and WWZ couplings from $WW/WZ \rightarrow e\nu jj$ production”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912033

10.1103/PhysRevD.62.052005

Phys. Rev. D **62**, 052005 (2000)

291. **“Hard single diffraction in $\bar{p}p$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912061

10.1016/S0370-2693(02)01364-3

Phys. Lett. B **531**, 52 (2002)

292. **“A measurement of the $W \rightarrow \tau\nu$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/9912065

10.1103/PhysRevLett.84.5710

Phys. Rev. Lett. **84**, 5710 (2000)

293. **“Inclusive jet cross sections in $\bar{p}p$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV”**

B. Abbott *et al.* [D0 Collaboration].

hep-ex/0001063

10.1016/S0920-5632(99)00683-0
Nucl. Phys. Proc. Suppl. **79**, 229 (1999)

294. **“Spin correlation in $t\bar{t}$ production from $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0002058
10.1103/PhysRevLett.85.256
Phys. Rev. Lett. **85**, 256 (2000)
295. **“A search for dilepton signatures from minimal low-energy supergravity in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
10.1103/PhysRevD.63.091102
Phys. Rev. D **63**, 091102 (2001).
296. **“Search for R -parity violation in multilepton final states in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0005034
10.1103/PhysRevD.62.071701
Phys. Rev. D **62**, 071701 (2000)
297. **“Search for new physics in $e\mu X$ data at DØ using Sherlock: A quasi model independent search strategy for new physics”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0006011
10.1103/PhysRevD.62.092004
Phys. Rev. D **62**, 092004 (2000)
298. **“Cross section for b jet production in $\bar{p}p$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0008021
10.1103/PhysRevLett.85.5068
Phys. Rev. Lett. **85**, 5068 (2000)
299. **“Search for electroweak production of single top quarks in $p\bar{p}$ collisions”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0008024
10.1103/PhysRevD.63.031101
Phys. Rev. D **63**, 031101 (2000)
300. **“Search for large extra dimensions in dielectron and diphoton production”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0008065

10.1103/PhysRevLett.86.1156
Phys. Rev. Lett. **86**, 1156 (2001)

301. **“The ratio of jet cross sections at $\sqrt{s} = 630$ GeV and 1800 GeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0008072
10.1103/PhysRevLett.86.2523
Phys. Rev. Lett. **86**, 2523 (2001)
302. **“Ratios of multijet cross sections in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0009012
10.1103/PhysRevLett.86.1955
Phys. Rev. Lett. **86**, 1955 (2001)
303. **“Measurement of the angular distribution of electrons from $W \rightarrow e\nu$ decays observed in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0009034
10.1103/PhysRevD.63.072001
Phys. Rev. D **63**, 072001 (2001)
304. **“Differential cross section for W boson production as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0010026
10.1016/S0370-2693(01)00628-1
Phys. Lett. B **513**, 292 (2001)
305. **“Inclusive jet production in $p\bar{p}$ collisions”**
B. Abbott *et al.* [D0 Collaboration].
hep-ex/0011036
10.1103/PhysRevLett.86.1707
Phys. Rev. Lett. **86**, 1707 (2001)
306. **“A Quasi model independent search for new physics at large transverse momentum”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0011067
10.1103/PhysRevD.64.012004
Phys. Rev. D **64**, 012004 (2001)
307. **“High- p_T jets in $p\bar{p}$ collisions at $\sqrt{s} = 630$ GeV and 1800 GeV”**
B. Abbott *et al.* [D0 Collaboration].

hep-ex/0012046
10.1103/PhysRevD.64.032003
Phys. Rev. D **64**, 032003 (2001)

308. **“A quasi-model-independent search for new high p_T physics at $D\bar{O}$ ”**

B. Abbott *et al.* [D0 Collaboration].
hep-ex/0011071
10.1103/PhysRevLett.86.3712
Phys. Rev. Lett. **86**, 3712 (2001)

309. **“Direct search for charged Higgs bosons in decays of top quarks”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0102039
10.1103/PhysRevLett.88.151803
Phys. Rev. Lett. **88**, 151803 (2002)

310. **“Search for heavy particles decaying into electron positron pairs in $p\bar{p}$ collisions”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0102048
10.1103/PhysRevLett.87.061802
Phys. Rev. Lett. **87**, 061802 (2001)

311. **“Search for first generation scalar and vector leptoquarks”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0105072
10.1103/PhysRevD.64.092004
Phys. Rev. D **64**, 092004 (2001)

312. **“Improved $D\bar{O}$ W boson mass determination”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106018

313. **“The ratio of the isolated photon cross sections at $\sqrt{s} = 630$ GeV and 1800 GeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106026
10.1103/PhysRevLett.87.251805
Phys. Rev. Lett. **87**, 251805 (2001)

314. **“The inclusive jet cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the k(T) algorithm”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106032

315. **“Measurement of the ratio of the differential cross sections for W and Z boson production as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**

- V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106027
316. **“Search for new physics using QUAERO: A General interface to D0 event data”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106039
10.1103/PhysRevLett.87.231801
Phys. Rev. Lett. **87**, 231801 (2001)
317. **“Search for single top quark production at D0 using neural networks”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106059
10.1016/S0370-2693(01)01009-7
Phys. Lett. B **517**, 282 (2001)
318. **“Search for leptoquark pairs decaying to $\nu\nu$ + jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106065
319. **“A Study of multiple jet production at transverse energy near 20-GeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0106072
320. **“Measurement of the ratio of differential cross sections for W and Z boson production as a function of transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0107012
10.1016/S0370-2693(01)01020-6
Phys. Lett. B **517**, 299 (2001)
321. **“A search for the scalar top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0108018
10.1103/PhysRevLett.88.171802
Phys. Rev. Lett. **88**, 171802 (2002)
322. **“Subjet multiplicity of gluon and quark jets reconstructed with the k_T algorithm in $p\bar{p}$ collisions”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0108054
10.1103/PhysRevD.65.052008
Phys. Rev. D **65**, 052008 (2002)

323. **“The inclusive jet cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV using the k_T algorithm”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0109041
10.1016/S0370-2693(01)01441-1
Phys. Lett. B **525**, 211 (2002)
324. **“Search for leptoquark pairs decaying to $\nu\nu$ + jets in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0111047
10.1103/PhysRevLett.88.191801
Phys. Rev. Lett. **88**, 191801 (2002)
325. **“Search for R -parity violating supersymmetry in dimuon and four-jets channel”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0111053
10.1103/PhysRevLett.89.171801
Phys. Rev. Lett. **89**, 171801 (2002)
326. **“A direct measurement of W boson decay width”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0204009
10.1103/PhysRevD.66.032008
Phys. Rev. D **66**, 032008 (2002)
327. **“Improved W boson mass measurement with the DØ detector”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0204014
10.1103/PhysRevD.66.012001
Phys. Rev. D **66**, 012001 (2002)
328. **“Search for mSUGRA in single electron events with jets and large missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0205002
10.1103/PhysRevD.66.112001
Phys. Rev. D **66**, 112001 (2002)
329. **“ $t\bar{t}$ production cross-section in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ -TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0205019
10.1103/PhysRevD.67.012004
Phys. Rev. D **67**, 012004 (2003)

330. **“Multiple jet production at low transverse energies in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0207046
10.1103/PhysRevD.67.052001
Phys. Rev. D **67**, 052001 (2003)
331. **“Search for the production of single sleptons through R -parity violation in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0207100
10.1103/PhysRevLett.89.261801
Phys. Rev. Lett. **89**, 261801 (2002)
332. **“D0 Run IIB upgrade technical design report”**
V. M. Abazov *et al.* [D0 Collaboration].
333. **“Search for large extra dimensions in the monojet + missing E_T channel at DØ”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0302014
10.1103/PhysRevLett.90.251802
Phys. Rev. Lett. **90**, 251802 (2003)
334. **“Search for narrow $t\bar{t}$ resonances in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0307079
10.1103/PhysRevLett.92.221801
Phys. Rev. Lett. **92**, 221801 (2004)
335. **“Observation of diffractively produced W and Z bosons in $\bar{p}p$ collisions at $\sqrt{s} = 1800$ GeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0308032
10.1016/j.physletb.2003.09.001
Phys. Lett. B **574**, 169 (2003)
336. **“Search for new particles in the two jet decay channel with the D0 detector”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0308033
10.1103/PhysRevD.69.111101
Phys. Rev. D **69**, 111101 (2004)
337. **“Search for 3- and 4-body decays of the scalar top quark in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
10.1016/j.physletb.2003.12.001
Phys. Lett. B **581**, 147 (2004).

338. **“Combination of CDF and D0 Results on W Boson Mass and Width”**
V. M. Abazov *et al.* [CDF and D0 Collaborations].
hep-ex/0311039
10.1103/PhysRevD.70.092008
Phys. Rev. D **70**, 092008 (2004)
339. **“Search for pair production of light scalar top quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0404028
10.1103/PhysRevLett.93.011801
Phys. Rev. Lett. **93**, 011801 (2004)
340. **“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”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0404015
10.1103/PhysRevLett.93.141801
Phys. Rev. Lett. **93**, 141801 (2004)
341. **“Helicity of the W boson in lepton + jets $t\bar{t}$ events”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0404040
10.1016/j.physletb.2005.04.069
Phys. Lett. B **617**, 1 (2005)
342. **“Observation and properties of the $X(3872)$ decaying to $J/\psi\pi^+\pi^-$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0405004
10.1103/PhysRevLett.93.162002
Phys. Rev. Lett. **93**, 162002 (2004)
343. **“A precision measurement of the mass of the top quark”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0406031
10.1038/nature02589
Nature **429**, 638 (2004)
344. **“New measurement of the top quark mass in lepton + jets $t\bar{t}$ events at D0”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0407005
345. **“Search for supersymmetry with gauge-mediated breaking in diphoton events at D0”**
V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0408146
10.1103/PhysRevLett.94.041801
Phys. Rev. Lett. **94**, 041801 (2005)

346. **“Measurement of dijet azimuthal decorrelations at central rapidities in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0409040
10.1103/PhysRevLett.94.221801
Phys. Rev. Lett. **94**, 221801 (2005)

347. **“Measurement of the B_s^0 lifetime in the exclusive decay channel $B_s^0 \rightarrow J/\psi\phi$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0409043
10.1103/PhysRevLett.94.042001
Phys. Rev. Lett. **94**, 042001 (2005)

348. **“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 with the DØ detector”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0410039
10.1103/PhysRevLett.94.071802
Phys. Rev. Lett. **94**, 071802 (2005)

349. **“Measurement of the ratio of B^+ and B^0 meson lifetimes”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0410052
10.1103/PhysRevLett.94.182001
Phys. Rev. Lett. **94**, 182001 (2005)

350. **“Measurement of the Λ_b^0 lifetime in the decay $\Lambda_b^0 \rightarrow J/\psi\Lambda^0$ with the DØ detector”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0410054
10.1103/PhysRevLett.94.102001
Phys. Rev. Lett. **94**, 102001 (2005)

351. **“A search for $Wb\bar{b}$ and WH production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0410062
10.1103/PhysRevLett.94.091802
Phys. Rev. Lett. **94**, 091802 (2005)

352. **“Measurement of the WW production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0410066

10.1103/PhysRevLett.94.151801, 10.1103/PhysRevLett.100.139901

Phys. Rev. Lett. **94**, 151801 (2005), [Erratum-ibid. **100**, 139901 (2008)]

353. **“A measurement of the ratio of inclusive cross sections $\sigma(pp \rightarrow Z + b - \text{jet})/\sigma(pp \rightarrow Z + \text{jet})$ at $\sqrt{s} = 1.96 \text{ TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0410078

10.1103/PhysRevLett.94.161801

Phys. Rev. Lett. **94**, 161801 (2005)

354. **“Measurement of the top quark mass in all-jet events”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0410086

10.1016/j.physletb.2004.11.071

Phys. Lett. B **606**, 25 (2005)

355. **“A Search for anomalous heavy-flavor quark production in association with W bosons”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0411084

10.1103/PhysRevLett.94.152002

Phys. Rev. Lett. **94**, 152002 (2005)

356. **“First measurement of $\sigma(p\bar{p} \rightarrow Z)$. $\text{Br}(Z \rightarrow \tau\tau)$ at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0412020

10.1103/PhysRevD.77.039901, 10.1103/PhysRevD.71.072004 10.1103/PhysRevD.77.039901, 10.1103/PhysRevD.71.072004

Phys. Rev. D **71**, 072004 (2005), [Erratum-ibid. D **77**, 039901 (2008)]

357. **“Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0412029

10.1103/PhysRevD.71.071104

Phys. Rev. D **71**, 071104 (2005)

358. **“Measurement of inclusive differential cross sections for v_{1S} production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0502030

10.1103/PhysRevLett.100.049902, 10.1103/PhysRevLett.94.232001

Phys. Rev. Lett. **94**, 232001 (2005), [Erratum-ibid. **100**, 049902 (2008)]

359. **“Study of $Z\gamma$ events and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ couplings in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0502036
10.1103/PhysRevLett.95.051802
Phys. Rev. Lett. **95**, 051802 (2005)
360. **“Measurement of the $p - \bar{p} \rightarrow W\gamma + X$ cross section at $\sqrt{s} = 1.96\text{-TeV}$ and $WW\gamma$ anomalous coupling limits”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0503048
10.1103/PhysRevD.71.091108
Phys. Rev. D **71**, 091108 (2005)
361. **“Search for neutral supersymmetric Higgs bosons in multijet events at $\sqrt{s} = 1.96\text{-TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0504018
10.1103/PhysRevLett.95.151801
Phys. Rev. Lett. **95**, 151801 (2005)
362. **“Production of WZ events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ and limits on anomalous WWZ couplings”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0504019
10.1103/PhysRevLett.95.141802
Phys. Rev. Lett. **95**, 141802 (2005)
363. **“Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0504032
10.1103/PhysRevLett.95.151805
Phys. Rev. Lett. **95**, 151805 (2005)
364. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96 = \text{TeV}$ using kinematic characteristics of lepton + jets events”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0504043
10.1016/j.physletb.2005.08.104
Phys. Lett. B **626**, 45 (2005)
365. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ using lepton + jets events with lifetime b^- tagging”**

- V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0504058
10.1016/j.physletb.2005.08.103
Phys. Lett. B **626**, 35 (2005)
366. **“Search for Randall-Sundrum gravitons in dilepton and diphoton final states”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0505018
10.1103/PhysRevLett.95.091801
Phys. Rev. Lett. **95**, 091801 (2005)
367. **“Search for right-handed W bosons in top quark decay”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0505031
10.1103/PhysRevD.72.011104
Phys. Rev. D **72**, 011104 (2005)
368. **“Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0505063
10.1016/j.physletb.2005.07.027
Phys. Lett. B **622**, 265 (2005)
369. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ in dilepton final states”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0505082
10.1016/j.physletb.2005.08.105
Phys. Lett. B **626**, 55 (2005)
370. **“Search for large extra spatial dimensions in dimuon production at D0”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0506063
10.1103/PhysRevLett.95.161602
Phys. Rev. Lett. **95**, 161602 (2005)
371. **“Measurement of semileptonic branching fractions of B mesons to narrow D^{**} states”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0507046
10.1103/PhysRevLett.95.171803
Phys. Rev. Lett. **95**, 171803 (2005)
372. **“Measurement of the lifetime difference in the $B_0(s)$ system”**
V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0507084
10.1103/PhysRevLett.95.171801
Phys. Rev. Lett. **95**, 171801 (2005)

373. **“The Upgraded D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].
physics/0507191 [physics.ins-det]
10.1016/j.nima.2006.05.248
Nucl. Instrum. Meth. A **565**, 463 (2006)

374. **“Search for the Higgs boson in $H \rightarrow WW^{(*)}$ decays in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0508054
10.1103/PhysRevLett.96.011801
Phys. Rev. Lett. **96**, 011801 (2006)

375. **“Measurement of the isolated photon cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0511054
10.1016/j.physletb.2007.06.047, 10.1016/j.physletb.2006.04.048
Phys. Lett. B **639**, 151 (2006), [Erratum-ibid. B **658**, 285 (2008)]

376. **“Search for pair production of second generation scalar leptoquarks in p anti- p collisions at $\sqrt{s} = 1.96\text{-TeV}$.”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0601047
10.1016/j.physletb.2006.03.056
Phys. Lett. B **636**, 183 (2006)

377. **“Measurement of $\mathbf{B}(t \rightarrow \mathbf{W}b) / \mathbf{B}(t \rightarrow \mathbf{W}q)$ at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0603002
10.1016/j.physletb.2006.07.019
Phys. Lett. B **639**, 616 (2006)

378. **“First direct two-sided bound on the B_s^0 oscillation frequency”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0603029
10.1103/PhysRevLett.97.021802
Phys. Rev. Lett. **97**, 021802 (2006)

379. **“Search for the rare decay $B_s^0 \rightarrow \phi\mu^+\mu^-$ with the D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0604015
10.1103/PhysRevD.74.031107
Phys. Rev. D **74**, 031107 (2006)

380. **“Multivariate searches for single top quark production with the D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0604020
10.1103/PhysRevD.75.092007
Phys. Rev. D **75**, 092007 (2007)

381. **“Search for squarks and gluinos in events with jets and missing transverse energy in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0604029
10.1016/j.physletb.2006.05.030
Phys. Lett. B **638**, 119 (2006)

382. **“Search for excited muons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0604040
10.1103/PhysRevD.73.111102
Phys. Rev. D **73**, 111102 (2006)

383. **“A Precise measurement of the B_s^0 lifetime”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0604046
10.1103/PhysRevLett.97.241801
Phys. Rev. Lett. **97**, 241801 (2006)

384. **“Search for R-parity violating supersymmetry via the LL anti-E couplings λ_{121} , λ_{122} or λ_{133} in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0605005
10.1016/j.physletb.2006.05.077
Phys. Lett. B **638**, 441 (2006)

385. **“Search for neutral Higgs bosons decaying to τ pairs in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0605009
10.1103/PhysRevLett.97.121802
Phys. Rev. Lett. **97**, 121802 (2006)

386. **“Search for resonant second generation slepton production at the Tevatron”**

V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0605010
10.1103/PhysRevLett.97.111801
Phys. Rev. Lett. **97**, 111801 (2006)

387. **“Search for particles decaying into a Z boson and a photon in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0605064
10.1016/j.physletb.2006.08.079, 10.1016/j.physletb.2008.11.032
Phys. Lett. B **641**, 415 (2006), [Erratum-ibid. B **670**, 455 (2009)]

388. **“Search for a heavy resonance decaying into a Z + jet final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV using the D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0606018
10.1103/PhysRevD.74.011104
Phys. Rev. D **74**, 011104 (2006)

389. **“Search for scalar leptoquarks in the acoplanar jet topology in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0607009
10.1016/j.physletb.2006.08.020
Phys. Lett. B **640**, 230 (2006)

390. **“Search for the Standard Model Higgs Boson in the $p\bar{p} \rightarrow ZH \rightarrow \nu\bar{\nu}b\bar{b}$ channel”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0607022
10.1103/PhysRevLett.97.161803
Phys. Rev. Lett. **97**, 161803 (2006)

391. **“Search for neutral, long-lived particles decaying into two muons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0607028
10.1103/PhysRevLett.97.161802
Phys. Rev. Lett. **97**, 161802 (2006)

392. **“Search for associated Higgs boson production $WH \rightarrow WWW^* \rightarrow \ell^\pm\nu\ell'+-\nu'+X$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0607032
10.1103/PhysRevLett.97.151804
Phys. Rev. Lett. **97**, 151804 (2006)

393. **“Search for W' boson production in the top quark decay channel”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0607102
 10.1016/j.physletb.2006.09.021
 Phys. Lett. B **641**, 423 (2006)
394. **“Limits on anomalous trilinear gauge couplings from $WW \rightarrow e^+e^-$, $WW \rightarrow e^\pm\mu^\mp$, and $WW \rightarrow \mu^+\mu^-$ events from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0608011
 10.1103/PhysRevD.74.057101, 10.1103/PhysRevD.74.059904, 10.1103/PhysRevD.74.057101 10.1103/Phys-
 RevD.74.059904
 Phys. Rev. D **74**, 057101 (2006), [Erratum-ibid. D **74**, 059904 (2006)]
395. **“Search for pair production of scalar bottom quarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0608013
 10.1103/PhysRevLett.97.171806
 Phys. Rev. Lett. **97**, 171806 (2006)
396. **“Experimental discrimination between charge $2e/3$ top quark and charge $4e/3$ exotic quark production scenarios”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0608044
 10.1103/PhysRevLett.98.041801
 Phys. Rev. Lett. **98**, 041801 (2007)
397. **“Measurement of the ratios of the $Z/\gamma^* + j = n$ jet production cross sections to the total inclusive Z/γ^* cross section in p anti- p collisions at $\sqrt{s} = 1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0608052
 10.1016/j.physletb.2007.10.046
 Phys. Lett. B **658**, 112 (2008)
398. **“Measurement of the CP-violation parameter of B_0 mixing and decay with p anti- $p \rightarrow j \mu \mu X$ data”**
 V. M. Abazov *et al.* [D0 Collaboration].
 hep-ex/0609014
 10.1103/PhysRevD.74.092001
 Phys. Rev. D **74**, 092001 (2006)
399. **“Measurement of B_d mixing using opposite-side flavor tagging”**
 V. M. Abazov *et al.* [D0 Collaboration].

hep-ex/0609034
10.1103/PhysRevD.74.112002
Phys. Rev. D **74**, 112002 (2006)

400. **“Measurement of the W boson helicity in top quark decay at D0”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0609045
10.1103/PhysRevD.75.031102
Phys. Rev. D **75**, 031102 (2007)

401. **“Measurement of the top quark mass in the lepton+jets final state with the matrix element method”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0609053
10.1103/PhysRevD.74.092005
Phys. Rev. D **74**, 092005 (2006)

402. **“Measurement of the top quark mass in the dilepton channel”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0609056
10.1016/j.physletb.2007.08.074
Phys. Lett. B **655**, 7 (2007)

403. **“Measurement of the t anti-t production cross section in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ using secondary vertex b tagging”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0611002
10.1103/PhysRevD.74.112004
Phys. Rev. D **74**, 112004 (2006)

404. **“Search for the pair production of scalar top quarks in the acoplanar charm jet final state in p anti-p collisions at $s^{**}(1/2) = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0611003
10.1016/j.physletb.2006.12.024
Phys. Lett. B **645**, 119 (2007)

405. **“Search for single production of scalar leptoquarks in p anti-p collisions decaying into muons and quarks with the D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0612012
10.1016/j.physletb.2007.01.064
Phys. Lett. B **647**, 74 (2007)

406. **“Search for techniparticles in e+jets events at D0”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0612013
10.1103/PhysRevLett.98.221801
Phys. Rev. Lett. **98**, 221801 (2007)
407. **“Measurement of the $p\bar{p} \rightarrow t\bar{t}$ production cross section at $\sqrt{s} = 1.96$ -TeV in the fully hadronic decay channel.”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0612040
10.1103/PhysRevD.76.072007
Phys. Rev. D **76**, 072007 (2007)
408. **“Evidence for production of single top quarks and first direct measurement of $-\text{V}_{tb}$ —”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0612052
10.1103/PhysRevLett.98.181802
Phys. Rev. Lett. **98**, 181802 (2007)
409. **“Measurement of the charge asymmetry in semileptonic B_s decays”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0701007
10.1103/PhysRevLett.98.151801
Phys. Rev. Lett. **98**, 151801 (2007)
410. **“Lifetime difference and CP-violating phase in the B_s^0 system”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0701012
10.1103/PhysRevLett.98.121801
Phys. Rev. Lett. **98**, 121801 (2007)
411. **“Search for production of single top quarks via t_{cg} and t_{ug} flavor- changing neutral current couplings”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0702005 [HEP-EX], arXiv:0801.2556 [HEP-EX]
10.1103/PhysRevLett.99.191802
Phys. Rev. Lett. **99**, 191802 (2007)
412. **“Measurement of the top quark mass in the lepton + jets channel using the Ideogram method”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0702018 [HEP-EX]
10.1103/PhysRevD.75.092001
Phys. Rev. D **75**, 092001 (2007)

413. **“Measurement of the shape of the boson rapidity distribution for $p\bar{p} \rightarrow Z/\text{gamma}^* \rightarrow e^+e^- + X$ events produced at \sqrt{s} of 1.96-TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0702025 [HEP-EX]
10.1103/PhysRevD.76.012003
Phys. Rev. D **76**, 012003 (2007)
414. **“Combined D^0 measurements constraining the CP-violating phase and width difference in the B_s^0 system”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0702030 [HEP-EX]
10.1103/PhysRevD.76.057101
Phys. Rev. D **76**, 057101 (2007)
415. **“Measurement of the branching fraction $\text{Br}(B^0(s) \rightarrow D_s^{(*)} D_s^{(*)})$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
hep-ex/0702049 [HEP-EX]
10.1103/PhysRevLett.99.241801
Phys. Rev. Lett. **99**, 241801 (2007)
416. **“Search for a Higgs boson produced in association with a Z boson in $p\bar{p}$ collisions”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0704.2000 [hep-ex]
10.1016/j.physletb.2007.08.070
Phys. Lett. B **655**, 209 (2007)
417. **“Measurement of the Λ_b lifetime in the exclusive decay $\Lambda_b \rightarrow J/\psi\Lambda$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0704.3909 [hep-ex]
10.1103/PhysRevLett.99.142001
Phys. Rev. Lett. **99**, 142001 (2007)
418. **“Search for stopped gluinos from $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0705.0306 [hep-ex]
10.1103/PhysRevLett.99.131801
Phys. Rev. Lett. **99**, 131801 (2007)
419. **“Search for third-generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0705.0812 [hep-ex]
10.1103/PhysRevLett.99.061801
Phys. Rev. Lett. **99**, 061801 (2007)

420. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV using kinematic characteristics of lepton + jets events”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0705.2788 [hep-ex]
10.1103/PhysRevD.76.092007
Phys. Rev. D **76**, 092007 (2007)
421. **“Observation and Properties of $L = 1B_1$ and B_2^* Mesons”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0705.3229 [hep-ex]
10.1103/PhysRevLett.99.172001
Phys. Rev. Lett. **99**, 172001 (2007)
422. **“Measurement of the $t\bar{t}$ production cross-section in $p\bar{p}$ collisions using dilepton events”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0706.0458 [hep-ex]
10.1103/PhysRevD.76.052006
Phys. Rev. D **76**, 052006 (2007)
423. **“Direct observation of the strange b baryon Ξ_b^- ”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0706.1690 [hep-ex]
10.1103/PhysRevLett.99.052001
Phys. Rev. Lett. **99**, 052001 (2007)
424. **“Measurement of the Λ_b^0 lifetime using semileptonic decays”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0706.2358 [hep-ex]
10.1103/PhysRevLett.99.182001
Phys. Rev. Lett. **99**, 182001 (2007)
425. **“Search for the lightest scalar top quark in events with two leptons in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0707.2864 [hep-ex]
10.1016/j.physletb.2007.11.086
Phys. Lett. B **659**, 500 (2008)
426. **“Search for $B_s \rightarrow \mu^+ \mu^-$ at D0”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0707.3997 [hep-ex]
10.1103/PhysRevD.76.092001
Phys. Rev. D **76**, 092001 (2007)

427. **“Search for flavor-changing-neutral-current D meson decays”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0708.2094 [hep-ex]
10.1103/PhysRevLett.100.101801
Phys. Rev. Lett. **100**, 101801 (2008)
428. **“Measurement of the $p\bar{p} \rightarrow WZ+X$ cross-section at $\sqrt{s} = 1.96$ -TeV and limits on WWZ trilinear gauge couplings”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0709.2917 [hep-ex]
10.1103/PhysRevD.76.111104
Phys. Rev. D **76**, 111104 (2007)
429. **“Measurement of the muon charge asymmetry from W boson decays”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0709.4254 [hep-ex]
10.1103/PhysRevD.77.011106
Phys. Rev. D **77**, 011106 (2008)
430. **“Search for W' bosons decaying to an electron and a neutrino with the D0 detector”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0710.2966 [hep-ex]
10.1103/PhysRevLett.100.031804
Phys. Rev. Lett. **100**, 031804 (2008)
431. **“Search for Randall-Sundrum gravitons with 1 fb^{-1} of data from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0710.3338 [hep-ex]
10.1103/PhysRevLett.100.091802
Phys. Rev. Lett. **100**, 091802 (2008)
432. **“Search for supersymmetry in di-photon final states at $\sqrt{s} = 1.96$ -TeV”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0710.3946 [hep-ex]
10.1016/j.physletb.2007.12.006
Phys. Lett. B **659**, 856 (2008)
433. **“Observation and properties of the orbitally excited $B^*(s_2)$ meson”**
V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0711.0319 [hep-ex]
10.1103/PhysRevLett.100.082002
Phys. Rev. Lett. **100**, 082002 (2008)

434. **“Model-independent measurement of the W boson helicity in top quark decays at D0”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0711.0032 [hep-ex]
 10.1103/PhysRevLett.100.062004
 Phys. Rev. Lett. **100**, 062004 (2008)
435. **“Search for Scalar Neutrino Superpartners in $e + \mu$ Final States in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0711.3207 [hep-ex]
 10.1103/PhysRevLett.100.241803
 Phys. Rev. Lett. **100**, 241803 (2008)
436. **“A Combined search for the standard model Higgs boson at $\sqrt{s} = 1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0712.0598 [hep-ex]
 10.1016/j.physletb.2008.02.069
 Phys. Lett. B **663**, 26 (2008)
437. **“Search for ZZ and $Z\gamma^*$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV and limits on anomalous ZZZ and $ZZ\gamma^*$ couplings”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0712.0599 [hep-ex]
 10.1103/PhysRevLett.100.131801
 Phys. Rev. Lett. **100**, 131801 (2008)
438. **“Measurement of the shape of the boson transverse momentum distribution in $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$ events produced at $\sqrt{s}=1.96$ -TeV”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0712.0803 [hep-ex]
 10.1103/PhysRevLett.100.102002
 Phys. Rev. Lett. **100**, 102002 (2008)
439. **“First measurement of the forward-backward charge asymmetry in top quark pair production”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0712.0851 [hep-ex]
 10.1103/PhysRevLett.100.142002
 Phys. Rev. Lett. **100**, 142002 (2008)
440. **“Measurement of the B_s^0 semileptonic branching ratio to an orbitally excited D_s state, $\text{Br}(B_s^0 \rightarrow D_{s1}^-(2536)\mu^+\nu X)$ ”**
 V. M. Abazov *et al.* [D0 Collaboration].
 arXiv:0712.3789 [hep-ex]

10.1103/PhysRevLett.102.051801

Phys. Rev. Lett. **102**, 051801 (2009)

441. **“Search for squarks and gluinos in events with jets and missing transverse energy using 2.1 fb⁻¹ of p \bar{p} collision data at $\sqrt{s} = 1.96$ - TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0712.3805 [hep-ex]

10.1016/j.physletb.2008.01.042

Phys. Lett. B **660**, 449 (2008)

442. **“Search for excited electrons in p \bar{p} collisions at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0801.0877 [hep-ex]

10.1103/PhysRevD.77.091102

Phys. Rev. D **77**, 091102 (2008)

443. **“Simultaneous measurement of the ratio $B(t \rightarrow Wb) / B(t \rightarrow Wq)$ and the top quark pair production cross section with the D0 detector at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0801.1326 [hep-ex]

10.1103/PhysRevLett.100.192003

Phys. Rev. Lett. **100**, 192003 (2008)

444. **“Measurement of B_s^0 mixing parameters from the flavor-tagged decay $B_s^0 \rightarrow J/\psi\phi$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0802.2255 [hep-ex]

10.1103/PhysRevLett.101.241801

Phys. Rev. Lett. **101**, 241801 (2008)

445. **“Measurement of the inclusive jet cross-section in p \bar{p} collisions at $s^{(1/2)} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0802.2400 [hep-ex]

10.1103/PhysRevLett.101.062001

Phys. Rev. Lett. **101**, 062001 (2008)

446. **“Study of direct CP violation in $B^\pm \rightarrow J/\psi K^\pm(\pi^\pm)$ decays”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0802.3299 [hep-ex]

10.1103/PhysRevLett.100.211802

Phys. Rev. Lett. **100**, 211802 (2008)

447. **“Observation of the B_c Meson in the Exclusive Decay $B_c \rightarrow J/\psi\pi$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0802.4258 [hep-ex]

10.1103/PhysRevLett.101.012001

Phys. Rev. Lett. **101**, 012001 (2008)

448. **“First study of the radiation-amplitude zero in $W\gamma$ production and limits on anomalous $WW\gamma$ couplings at $\sqrt{s} = 1.96$ - TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.0030 [hep-ex]

10.1103/PhysRevLett.100.241805

Phys. Rev. Lett. **100**, 241805 (2008)

449. **“Evidence for production of single top quarks”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.0739 [hep-ex]

10.1103/PhysRevD.78.012005

Phys. Rev. D **78**, 012005 (2008)

450. **“Search for decay of a fermiophobic Higgs boson $h(f) \rightarrow \gamma\gamma$ with the D0 detector at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.1514 [hep-ex]

10.1103/PhysRevLett.101.051801

Phys. Rev. Lett. **101**, 051801 (2008)

451. **“Search for pair production of doubly-charged Higgs bosons in the $H^{++}H^{--} \rightarrow \mu^+\mu^+\mu^-\mu^-$ final state at D0”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.1534 [hep-ex]

10.1103/PhysRevLett.101.071803

Phys. Rev. Lett. **101**, 071803 (2008)

452. **“Search for large extra dimensions via single photon plus missing energy final states at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.2137 [hep-ex]

10.1103/PhysRevLett.101.011601

Phys. Rev. Lett. **101**, 011601 (2008)

453. **“Measurement of the ratio of the $p\bar{p} \rightarrow W^+c^-$ jet cross section to the inclusive $p\bar{p} \rightarrow W +$ jets cross section”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.2259 [hep-ex]

10.1016/j.physletb.2008.06.067

Phys. Lett. B **666**, 23 (2008)

454. **“Search for scalar top quarks in the acoplanar charm jets and missing transverse energy final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.2263 [hep-ex]

10.1016/j.physletb.2008.05.037

Phys. Lett. B **665**, 1 (2008)

455. **“Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.2779 [hep-ex]

10.1103/PhysRevLett.100.192004

Phys. Rev. Lett. **100**, 192004 (2008)

456. **“Search for W' Boson Resonances Decaying to a Top Quark and a Bottom Quark”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0803.3256 [hep-ex]

10.1103/PhysRevLett.100.211803

Phys. Rev. Lett. **100**, 211803 (2008)

457. **“Measurement of the differential cross-section for the production of an isolated photon with associated jet in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0804.1107 [hep-ex]

10.1016/j.physletb.2008.06.076

Phys. Lett. B **666**, 435 (2008)

458. **“Measurement of the polarization of the v_{1S} and v_{2S} states in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0804.2799 [hep-ex]

10.1103/PhysRevLett.101.182004

Phys. Rev. Lett. **101**, 182004 (2008)

459. **“Measurement of the forward-backward charge asymmetry and extraction of $\sin^2\theta_{W_{eff}}$ in $p\bar{p} \rightarrow Z/\gamma^* + X \rightarrow e^+e^- + X$ events produced at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0804.3220 [hep-ex]

10.1103/PhysRevLett.101.191801

Phys. Rev. Lett. **101**, 191801 (2008)

460. **“Search for $t\bar{t}$ resonances in the lepton plus jets final state in $p\bar{p}$ collisions at $\sqrt{s} = 1.96\text{-TeV}$ ”**

V. M. Abazov *et al.* [D0 Collaboration].

arXiv:0804.3664 [hep-ex]
10.1016/j.physletb.2008.08.027
Phys. Lett. B **668**, 98 (2008)

461. **“Search for Higgs bosons decaying to τ pairs in $p\bar{p}$ collisions with the D0 detector”**

V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0805.2491 [hep-ex]
10.1103/PhysRevLett.101.071804
Phys. Rev. Lett. **101**, 071804 (2008)

462. **“Relative rates of B meson decays into ψ_{2S} and J/ψ mesons”**

V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0805.2576 [hep-ex]
10.1103/PhysRevD.79.111102
Phys. Rev. D **79**, 111102 (2009)

463. **“Measurement of the lifetime of the B_c^\pm meson in the semileptonic decay channel”**

V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0805.2614 [hep-ex]
10.1103/PhysRevLett.102.092001
Phys. Rev. Lett. **102**, 092001 (2009)

464. **“Search for neutral Higgs bosons in multi-b-jet events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ -TeV”**

V. M. Abazov *et al.* [D0 Collaboration].
arXiv:0805.3556 [hep-ex]
10.1103/PhysRevLett.101.221802
Phys. Rev. Lett. **101**, 221802 (2008)

Publications CMS Collaboration

465. **“Expression of Interest by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider”**

G. H. Trilling *et al.* [SDC Collaboration].

466. **“Letter of Intent by the Solenoidal Detector Collaboration to Construct and Operate A Detector at the Superconducting Super Collider”**

G. H. Trilling *et al.* [SDC Collaboration].

467. **“Technical Design of a Detector (Solenoidal Detector) April 1, 1992 to be Operated at the Superconducting Super Collider”**

G. H. Trilling *et al.* [Solenoidal Detector Collaboration].
10.2172/7121463

468. **“R & D proposal: Proposal for research and development of a hadron calorimeter for high magnetic fields”**
G. Bayatian *et al.* [RD43 Collaboration].
469. **“CMS physics: Technical design report”**
G. L. Bayatian *et al.* [CMS Collaboration].
470. **“CMS physics technical design report: Addendum on high density QCD with heavy ions”**
D. G. d’Enterria *et al.* [CMS Collaboration].
10.1088/0954-3899/34/11/008
J. Phys. G **34**, 2307 (2007).
471. **“CMS expression of interest in the SLHC”**
J. Nash *et al.* [CMS Collaboration].
472. **“CMS technical design report, volume II: Physics performance”**
G. L. Bayatian *et al.* [CMS Collaboration].
10.1088/0954-3899/34/6/S01
J. Phys. G **34**, 995 (2007).
473. **“The CMS experiment at the CERN LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
10.1088/1748-0221/3/08/S08004
JINST **3**, S08004 (2008).
474. **“Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0910.2505 [physics.ins-det]
10.1088/1748-0221/5/03/T03009
JINST **5**, T03009 (2010)
475. **“Performance and Operation of the CMS Electromagnetic Calorimeter”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0910.3423 [physics.ins-det]
10.1088/1748-0221/5/03/T03010
JINST **5**, T03010 (2010)
476. **“Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0910.5530 [physics.ins-det]
10.1088/1748-0221/5/03/T03021
JINST **5**, T03021 (2010)

477. **“Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4022 [physics.ins-det]
10.1088/1748-0221/5/03/T03020
JINST **5**, T03020 (2010)
478. **“Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4044 [physics.ins-det]
10.1088/1748-0221/5/03/T03011
JINST **5**, T03011 (2010)
479. **“Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4045 [physics.ins-det]
10.1088/1748-0221/5/03/T03017
JINST **5**, T03017 (2010)
480. **“Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4770 [physics.ins-det]
10.1088/1748-0221/5/03/T03019
JINST **5**, T03019 (2010)
481. **“CMS Data Processing Workflows during an Extended Cosmic Ray Run”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4842 [physics.ins-det]
10.1088/1748-0221/5/03/T03006
JINST **5**, T03006 (2010)
482. **“Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4845 [physics.ins-det]
10.1088/1748-0221/5/03/T03001
JINST **5**, T03001 (2010)
483. **“Performance of the CMS Drift Tube Chambers with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4855 [physics.ins-det]
10.1088/1748-0221/5/03/T03015
JINST **5**, T03015 (2010)

484. **“Performance of CMS Hadron Calorimeter Timing and Synchronization using Test Beam, Cosmic Ray, and LHC Beam Data”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4877 [physics.ins-det]
10.1088/1748-0221/5/03/T03013
JINST **5**, T03013 (2010)
485. **“Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4881 [physics.ins-det]
10.1088/1748-0221/5/03/T03014
JINST **5**, T03014 (2010)
486. **“Commissioning of the CMS High-Level Trigger with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4889 [physics.ins-det]
10.1088/1748-0221/5/03/T03005
JINST **5**, T03005 (2010)
487. **“Performance of the CMS Drift-Tube Local Trigger with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4893 [physics.ins-det]
10.1088/1748-0221/5/03/T03003
JINST **5**, T03003 (2010)
488. **“Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4895 [physics.ins-det]
10.1088/1748-0221/5/03/T03016
JINST **5**, T03016 (2010)
489. **“Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4904 [physics.ins-det]
10.1088/1748-0221/5/03/T03004
JINST **5**, T03004 (2010)
490. **“Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4991 [physics.ins-det]
10.1088/1748-0221/5/03/T03012
JINST **5**, T03012 (2010)

491. **“Performance of the CMS Cathode Strip Chambers with Cosmic Rays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4992 [physics.ins-det]
10.1088/1748-0221/5/03/T03018
JINST **5**, T03018 (2010)
492. **“Performance of CMS Muon Reconstruction in Cosmic-Ray Events”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4994 [physics.ins-det]
10.1088/1748-0221/5/03/T03022
JINST **5**, T03022 (2010)
493. **“Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.4996 [physics.ins-det]
10.1088/1748-0221/5/03/T03008
JINST **5**, T03008 (2010)
494. **“Measurement of the Muon Stopping Power in Lead Tungstate”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.5397 [physics.ins-det]
10.1088/1748-0221/5/03/P03007
JINST **5**, P03007 (2010)
495. **“Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.5422 [physics.ins-det]
10.1088/1748-0221/5/03/T03002
JINST **5**, T03002 (2010)
496. **“Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:0911.5434 [physics.ins-det]
10.1088/1748-0221/5/03/T03007
JINST **5**, T03007 (2010)
497. **“Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 0.9$ and 2.36 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1002.0621 [hep-ex]
10.1007/JHEP02(2010)041
JHEP **1002**, 041 (2010)

498. **“Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1005.3299 [hep-ex]
10.1103/PhysRevLett.105.022002
Phys. Rev. Lett. **105**, 022002 (2010)
499. **“Measurement of Bose-Einstein correlations with first CMS data”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1005.3294 [hep-ex]
10.1103/PhysRevLett.105.032001
Phys. Rev. Lett. **105**, 032001 (2010)
500. **“Measurement of the charge ratio of atmospheric muons with the CMS detector”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1005.5332 [hep-ex]
10.1016/j.physletb.2010.07.033
Phys. Lett. B **692**, 83 (2010)
501. **“First Measurement of the Underlying Event Activity at the LHC with $\sqrt{s} = 0.9$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1006.2083 [hep-ex]
10.1140/epjc/s10052-010-1453-9
Eur. Phys. J. C **70**, 555 (2010)
502. **“CMS Tracking Performance Results from early LHC Operation”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1007.1988 [physics.ins-det]
10.1140/epjc/s10052-010-1491-3
Eur. Phys. J. C **70**, 1165 (2010)
503. **“Observation of Long-Range Near-Side Angular Correlations in Proton-Proton Collisions at the LHC”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1009.4122 [hep-ex]
10.1007/JHEP09(2010)091
JHEP **1009**, 091 (2010)
504. **“Search for Dijet Resonances in 7 TeV pp Collisions at CMS”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1010.0203 [hep-ex]
10.1103/PhysRevLett.105.211801, 10.1103/PhysRevLett.106.029902
Phys. Rev. Lett. **105**, 211801 (2010)

505. **“Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1010.4439 [hep-ex]
10.1103/PhysRevLett.105.262001
Phys. Rev. Lett. **105**, 262001 (2010)
506. **“First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1010.5994 [hep-ex]
10.1016/j.physletb.2010.11.058
Phys. Lett. B **695**, 424 (2011)
507. **“Study of Various Photomultiplier Tubes with Muon Beams And Cerenkov Light Produced in Electron Showers”**
S. Chatrchyan *et al.* [CMS HCAL Collaboration].
10.1088/1748-0221/5/06/P06002
JINST **5**, P06002 (2010).
508. **“Prompt and non-prompt J/ψ production in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1011.4193 [hep-ex]
10.1140/epjc/s10052-011-1575-8
Eur. Phys. J. C **71**, 1575 (2011)
509. **“Search for Stopped Gluinos in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1011.5861 [hep-ex]
10.1103/PhysRevLett.106.011801
Phys. Rev. Lett. **106**, 011801 (2011)
510. **“Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9, 2.36, \text{ and } 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1011.5531 [hep-ex]
10.1007/JHEP01(2011)079
JHEP **1101**, 079 (2011)
511. **“Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1012.0799 [hep-ex]

10.1103/PhysRevLett.106.082001

Phys. Rev. Lett. **106**, 082001 (2011)

512. **“Measurements of Inclusive W and Z Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.2466 [hep-ex]

10.1007/JHEP01(2011)080

JHEP **1101**, 080 (2011)

513. **“Search for Microscopic Black Hole Signatures at the Large Hadron Collider”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.3375 [hep-ex]

10.1016/j.physletb.2011.02.032

Phys. Lett. B **697**, 434 (2011)

514. **“Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.4033 [hep-ex]

10.1103/PhysRevLett.106.201803

Phys. Rev. Lett. **106**, 201803 (2011)

515. **“Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.4031 [hep-ex]

10.1103/PhysRevLett.106.201802

Phys. Rev. Lett. **106**, 201802 (2011)

516. **“Upsilon Production Cross-Section in pp Collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.5545 [hep-ex]

10.1103/PhysRevD.83.112004

Phys. Rev. D **83**, 112004 (2011)

517. **“Search for a heavy gauge boson W' in the final state with an electron and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1012.5945 [hep-ex]

10.1016/j.physletb.2011.02.048

Phys. Lett. B **698**, 21 (2011)

518. **“Measurement of the B^+ Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1101.0131 [hep-ex]
10.1103/PhysRevLett.106.112001
Phys. Rev. Lett. **106**, 112001 (2011)

519. **“Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1101.1645 [hep-ex]
10.1007/JHEP03(2011)024
JHEP **1103**, 024 (2011)
520. **“Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1101.1628 [hep-ex]
10.1016/j.physletb.2011.03.021
Phys. Lett. B **698**, 196 (2011)
521. **“Measurement of Bose-Einstein Correlations in pp Collisions at $\sqrt{s} = 0.9$ and 7 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1101.3518 [hep-ex]
10.1007/JHEP05(2011)029
JHEP **1105**, 029 (2011)
522. **“Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1101.3512 [hep-ex]
10.1007/JHEP03(2011)090
JHEP **1103**, 090 (2011)
523. **“Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1101.5029 [hep-ex]
10.1103/PhysRevLett.106.122003
Phys. Rev. Lett. **106**, 122003 (2011)
524. **“First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1102.0068 [hep-ex]
10.1016/j.physletb.2011.03.060
Phys. Lett. B **699**, 48 (2011)
525. **“Observation and studies of jet quenching in PbPb collisions at nucleon-nucleon center-of-mass energy = 2.76 TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1102.1957 [nucl-ex]
10.1103/PhysRevC.84.024906
Phys. Rev. C **84**, 024906 (2011)
526. **“Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1102.2020 [hep-ex]
10.1103/PhysRevLett.106.201804
Phys. Rev. Lett. **106**, 201804 (2011)
527. **“Measurement of $B\bar{B}$ Angular Correlations based on Secondary Vertex Reconstruction at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1102.3194 [hep-ex]
10.1007/JHEP03(2011)136
JHEP **1103**, 136 (2011)
528. **“Strange Particle Production in pp Collisions at $\sqrt{s} = 0.9$ and 7 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1102.4282 [hep-ex]
10.1007/JHEP05(2011)064
JHEP **1105**, 064 (2011)
529. **“Search for a Heavy Bottom-like Quark in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1102.4746 [hep-ex]
10.1016/j.physletb.2011.05.074
Phys. Lett. B **701**, 204 (2011)
530. **“Study of Z boson production in PbPb collisions at nucleon-nucleon centre of mass energy = 2.76 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1102.5435 [nucl-ex]
10.1103/PhysRevLett.106.212301
Phys. Rev. Lett. **106**, 212301 (2011)
531. **“Measurement of W^+W^- Production and Search for the Higgs Boson in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1102.5429 [hep-ex]

10.1016/j.physletb.2011.03.056

Phys. Lett. B **699**, 25 (2011)

532. **“Search for a W' boson decaying to a muon and a neutrino in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.0030 [hep-ex]
10.1016/j.physletb.2011.05.048
Phys. Lett. B **701**, 160 (2011)
533. **“Search for Resonances in the Dilepton Mass Distribution in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.0981 [hep-ex]
10.1007/JHEP05(2011)093
JHEP **1105**, 093 (2011)
534. **“Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.0953 [hep-ex]
10.1103/PhysRevLett.106.211802
Phys. Rev. Lett. **106**, 211802 (2011)
535. **“Search for Physics Beyond the Standard Model in Opposite-Sign Dilepton Events at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.1348 [hep-ex]
10.1007/JHEP06(2011)026
JHEP **1106**, 026 (2011)
536. **“Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.3470 [hep-ex]
10.1007/JHEP04(2011)050
JHEP **1104**, 050 (2011)
537. **“Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1103.4279 [hep-ex]
10.1007/JHEP05(2011)085
JHEP **1105**, 085 (2011)
538. **“Search for Neutral MSSM Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.1619 [hep-ex]
10.1103/PhysRevLett.106.231801
Phys. Rev. Lett. **106**, 231801 (2011)
539. **“Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.1617 [hep-ex]
10.1007/JHEP08(2011)117
JHEP **1108**, 117 (2011)
540. **“Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.1693 [hep-ex]
10.1016/j.physletb.2011.05.027
Phys. Lett. B **700**, 187 (2011)
541. **“Measurement of the B^0 production cross section in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.2892 [hep-ex]
10.1103/PhysRevLett.106.252001
Phys. Rev. Lett. **106**, 252001 (2011)
542. **“Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.3168 [hep-ex]
10.1007/JHEP06(2011)077
JHEP **1106**, 077 (2011)
543. **“Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.3829 [hep-ex]
10.1103/PhysRevLett.107.021802
Phys. Rev. Lett. **107**, 021802 (2011)
544. **“Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1104.3547 [hep-ex]

10.1007/JHEP08(2011)086
JHEP **1108**, 086 (2011)

545. **“Long-range and short-range dihadron angular correlations in central PbPb collisions at a nucleon-nucleon center of mass energy of 2.76 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.2438 [nucl-ex]
10.1007/JHEP07(2011)076
JHEP **1107**, 076 (2011)
546. **“Measurement of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.2758 [hep-ex]
10.1016/j.physletb.2011.06.034
Phys. Lett. B **701**, 535 (2011)
547. **“Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.3152 [hep-ex]
10.1007/JHEP06(2011)093
JHEP **1106**, 093 (2011)
548. **“Indications of suppression of excited Υ states in PbPb collisions at $\sqrt{S_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.4894 [nucl-ex]
10.1103/PhysRevLett.107.052302
Phys. Rev. Lett. **107**, 052302 (2011)
549. **“Search for First Generation Scalar Leptoquarks in the $evjj$ channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.5237 [hep-ex]
10.1016/j.physletb.2011.07.089
Phys. Lett. B **703**, 246 (2011)
550. **“Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1105.5661 [hep-ex]
10.1007/JHEP07(2011)049
JHEP **1107**, 049 (2011)

551. **“Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.0208 [hep-ex]
10.1103/PhysRevLett.107.132001
Phys. Rev. Lett. **107**, 132001 (2011)
552. **“Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.0647 [hep-ex]
10.1016/j.physletb.2011.07.067
Phys. Lett. B **702**, 336 (2011)
553. **“Search for Physics Beyond the Standard Model Using Multilepton Signatures in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.0933 [hep-ex]
10.1016/j.physletb.2011.09.047
Phys. Lett. B **704**, 411 (2011)
554. **“Measurement of the Top-antitop Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV using the Kinematic Properties of Events with Leptons and Jets”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.0902 [hep-ex]
10.1140/epjc/s10052-011-1721-3
Eur. Phys. J. C **71**, 1721 (2011)
555. **“Search for Same-Sign Top-Quark Pair Production at $\sqrt{s} = 7$ TeV and Limits on Flavour Changing Neutral Currents in the Top Sector”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.2142 [hep-ex]
10.1007/JHEP08(2011)005
JHEP **1108**, 005 (2011)
556. **“Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.2375 [hep-ex]
10.1007/JHEP07(2011)098
JHEP **1107**, 098 (2011)
557. **“Measurement of the t -channel single top quark production cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1106.3052 [hep-ex]

10.1103/PhysRevLett.107.091802

Phys. Rev. Lett. **107**, 091802 (2011)

558. **“Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1106.3272 [hep-ex]

10.1007/JHEP07(2011)113

JHEP **1107**, 113 (2011)

559. **“Measurement of the Strange B Meson Production Cross Section with J/Psi ϕ Decays in pp Collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1106.4048 [hep-ex]

10.1103/PhysRevD.84.052008

Phys. Rev. D **84**, 052008 (2011)

560. **“Search for New Physics with Jets and Missing Transverse Momentum in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1106.4503 [hep-ex]

10.1007/JHEP08(2011)155

JHEP **1108**, 155 (2011)

561. **“Search for New Physics with a Mono-Jet and Missing Transverse Energy in pp Collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1106.4775 [hep-ex]

10.1103/PhysRevLett.107.201804

Phys. Rev. Lett. **107**, 201804 (2011)

562. **“Missing transverse energy performance of the CMS detector”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1106.5048 [physics.ins-det]

10.1088/1748-0221/6/09/P09001

JINST **6**, P09001 (2011)

563. **“Measurement of the Underlying Event Activity at the LHC with $\sqrt{s} = 7$ TeV and Comparison with $\sqrt{s} = 0.9$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1107.0330 [hep-ex]

10.1007/JHEP09(2011)109

JHEP **1109**, 109 (2011)

564. **“Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.1279 [hep-ex]
10.1103/PhysRevD.85.012004
Phys. Rev. D **85**, 012004 (2012)
565. **“A search for excited leptons in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.1773 [hep-ex]
10.1016/j.physletb.2011.09.021
Phys. Lett. B **704**, 143 (2011)
566. **“Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.1870 [hep-ex]
10.1007/JHEP08(2011)156
JHEP **1108**, 156 (2011)
567. **“Search for Three-Jet Resonances in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.3084 [hep-ex]
10.1103/PhysRevLett.107.101801
Phys. Rev. Lett. **107**, 101801 (2011)
568. **“Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.4277 [physics.ins-det]
10.1088/1748-0221/6/11/P11002
JINST **6**, P11002 (2011)
569. **“Dependence on pseudorapidity and centrality of charged hadron production in PbPb collisions at a nucleon-nucleon centre-of-mass energy of 2.76 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.4800 [nucl-ex]
10.1007/JHEP08(2011)141
JHEP **1108**, 141 (2011)
570. **“Measurement of the Inclusive W and Z Production Cross Sections in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.4789 [hep-ex]

10.1007/JHEP10(2011)132
JHEP **1110**, 132 (2011)

571. **“Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.4771 [hep-ex]
10.1016/j.physletb.2011.09.015
Phys. Lett. B **704**, 123 (2011)
572. **“Search for B(s) and B to dimuon decays in pp collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1107.5834 [hep-ex]
10.1103/PhysRevLett.107.191802
Phys. Rev. Lett. **107**, 191802 (2011)
573. **“Measurement of the Drell-Yan Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1108.0566 [hep-ex]
10.1007/JHEP10(2011)007
JHEP **1110**, 007 (2011)
574. **“Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1108.2044 [hep-ex]
10.1103/PhysRevD.84.052011
Phys. Rev. D **84**, 052011 (2011)
575. **“Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1108.3773 [hep-ex]
10.1103/PhysRevD.84.092004
Phys. Rev. D **84**, 092004 (2011)
576. **“Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1109.2352 [hep-ex]
10.1103/PhysRevLett.107.221804
Phys. Rev. Lett. **107**, 221804 (2011)
577. **“Search for a Vector-like Quark with Charge 2/3 in $t + Z$ Events from pp Collisions at $\sqrt{s} = 7$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1109.4985 [hep-ex]
10.1103/PhysRevLett.107.271802
Phys. Rev. Lett. **107**, 271802 (2011)
578. **“Performance of tau-lepton reconstruction and identification in CMS”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1109.6034 [physics.ins-det]
10.1088/1748-0221/7/01/P01001
JINST **7**, P01001 (2012)
579. **“Forward Energy Flow, Central Charged-Particle Multiplicities, and Pseudorapidity Gaps in W and Z Boson Events from pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.0181 [hep-ex]
10.1140/epjc/s10052-011-1839-3
Eur. Phys. J. C **72**, 1839 (2012)
580. **“Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.0211 [hep-ex]
10.1007/JHEP11(2011)148, 10.1007/JHEP02(2012)055
JHEP **1111**, 148 (2011), [Erratum-ibid. **1202**, 055 (2012)]
581. **“Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.2682 [hep-ex]
10.1103/PhysRevD.84.112002
Phys. Rev. D **84**, 112002 (2011)
582. **“Jet Production Rates in Association with W and Z Bosons in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.3226 [hep-ex]
10.1007/JHEP01(2012)010
JHEP **1201**, 010 (2012)
583. **“Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.4973 [hep-ex]
10.1103/PhysRevD.85.032002
Phys. Rev. D **85**, 032002 (2012)

584. **“Measurement of the Production Cross Section for Pairs of Isolated Photons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1110.6461 [hep-ex]
10.1007/JHEP01(2012)133
JHEP **1201**, 133 (2012)
585. **“ J/ψ and ψ_{2S} production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1111.1557 [hep-ex]
10.1007/JHEP02(2012)011
JHEP **1202**, 011 (2012)
586. **“Exclusive photon-photon production of muon pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1111.5536 [hep-ex]
10.1007/JHEP01(2012)052
JHEP **1201**, 052 (2012)
587. **“Search for signatures of extra dimensions in the diphoton mass spectrum at the Large Hadron Collider”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1112.0688 [hep-ex]
10.1103/PhysRevLett.108.111801
Phys. Rev. Lett. **108**, 111801 (2012)
588. **“Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1112.5100 [hep-ex]
10.1016/j.physletb.2012.01.078
Phys. Lett. B **709**, 28 (2012)
589. **“Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1201.3093 [nucl-ex]
10.1016/j.physletb.2012.02.077
Phys. Lett. B **710**, 256 (2012)
590. **“Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1201.3158 [nucl-ex]

10.1140/epjc/s10052-012-2012-3
Eur. Phys. J. C **72**, 2012 (2012)

591. **“Suppression of non-prompt J/ψ , prompt J/ψ , and $Y(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1201.5069 [nucl-ex]
10.1007/JHEP05(2012)063
JHEP **1205**, 063 (2012)
592. **“Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.0704 [hep-ex]
10.1007/JHEP06(2012)036
JHEP **1206**, 036 (2012)
593. **“Search for a Higgs boson in the decay channel H to $ZZ(*)$ to $q \bar{q} \ell^- \ell^+$ in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.1416 [hep-ex]
10.1007/JHEP04(2012)036
JHEP **1204**, 036 (2012)
594. **“Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.1487 [hep-ex]
10.1016/j.physletb.2012.03.003
Phys. Lett. B **710**, 403 (2012)
595. **“Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.1488 [hep-ex]
10.1016/j.physletb.2012.02.064
Phys. Lett. B **710**, 26 (2012)
596. **“Search for the standard model Higgs boson decaying to a W pair in the fully leptonic final state in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.1489 [hep-ex]

10.1016/j.physletb.2012.02.076

Phys. Lett. B **710**, 91 (2012)

597. **“Search for the standard model Higgs boson in the decay channel H to ZZ to 4 leptons in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.1997 [hep-ex]

10.1103/PhysRevLett.108.111804

Phys. Rev. Lett. **108**, 111804 (2012)

598. **“Study of high-pT charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.2554 [nucl-ex]

10.1140/epjc/s10052-012-1945-x

Eur. Phys. J. C **72**, 1945 (2012)

599. **“Search for the standard model Higgs boson in the H to ZZ to $\ell\ell\tau\tau$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.3617 [hep-ex]

10.1007/JHEP03(2012)081

JHEP **1203**, 081 (2012)

600. **“Search for the standard model Higgs boson in the H to ZZ to 2 $\ell 2\nu$ channel in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.3478 [hep-ex]

10.1007/JHEP03(2012)040

JHEP **1203**, 040 (2012)

601. **“Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.3827 [hep-ex]

10.1016/j.physletb.2012.03.029

Phys. Lett. B **711**, 15 (2012)

602. **“Search for neutral Higgs bosons decaying to τ pairs in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1202.4083 [hep-ex]

10.1016/j.physletb.2012.05.028

Phys. Lett. B **713**, 68 (2012)

603. **“Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.4195 [hep-ex]
10.1016/j.physletb.2012.02.085
Phys. Lett. B **710**, 284 (2012)
604. **“Inclusive b -jet production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.4617 [hep-ex]
10.1007/JHEP04(2012)084
JHEP **1204**, 084 (2012)
605. **“Jet momentum dependence of jet quenching in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.5022 [nucl-ex]
10.1016/j.physletb.2012.04.058
Phys. Lett. B **712**, 176 (2012)
606. **“Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.5535 [hep-ex]
10.1007/JHEP05(2012)055
JHEP **1205**, 055 (2012)
607. **“Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1202.6396 [hep-ex]
10.1007/JHEP04(2012)061
JHEP **1204**, 061 (2012)
608. **“Measurement of the cross section for production of $bb^{\bar{}}$ bar X , decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1203.3458 [hep-ex]
10.1007/JHEP06(2012)110
JHEP **1206**, 110 (2012)
609. **“Search for $B_s^0 \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$ decays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1203.3976 [hep-ex]

10.1007/JHEP04(2012)033
JHEP **1204**, 033 (2012)

610. **“Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1203.5410 [hep-ex]
10.1016/j.physletb.2012.07.059
Phys. Lett. B **716**, 103 (2012)
611. **“Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s} = 7$ TeV in dilepton final states containing a τ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1203.6810 [hep-ex]
10.1103/PhysRevD.85.112007
Phys. Rev. D **85**, 112007 (2012)
612. **“Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.0696 [hep-ex]
10.1140/epjc/s10052-012-2216-6
Eur. Phys. J. C **72**, 2216 (2012)
613. **“Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.0821 [hep-ex]
10.1103/PhysRevLett.108.261803
Phys. Rev. Lett. **108**, 261803 (2012)
614. **“Search for heavy bottom-like quarks in 4.9 inverse femtobarns of pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.1088 [hep-ex]
10.1007/JHEP05(2012)123
JHEP **1205**, 123 (2012)
615. **“Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.1411 [hep-ex]
10.1140/epjc/s10052-012-2080-4
Eur. Phys. J. C **72**, 2080 (2012)

616. **“Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.1409 [nucl-ex]
10.1103/PhysRevC.87.014902
Phys. Rev. C **87**, no. 1, 014902 (2013)
617. **“Measurement of the Z/gamma*+b-jet cross section in pp collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.1643 [hep-ex]
10.1007/JHEP06(2012)126
JHEP **1206**, 126 (2012)
618. **“Azimuthal anisotropy of charged particles at high transverse momenta in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.1850 [nucl-ex]
10.1103/PhysRevLett.109.022301
Phys. Rev. Lett. **109**, 022301 (2012)
619. **“Search for Anomalous $t\bar{t}$ Production in the Highly-Boosted All-Hadronic Final State”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.2488 [hep-ex]
10.1007/JHEP09(2012)029, 10.1007/JHEP03(2014)132
JHEP **1209**, 029 (2012), [Erratum-ibid. **1403**, 132 (2014)]
620. **“Measurement of the mass difference between top and antitop quarks”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.2807 [hep-ex]
10.1007/JHEP06(2012)109
JHEP **1206**, 109 (2012)
621. **“Shape, Transverse Size, and Charged Hadron Multiplicity of Jets in pp Collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.3170 [hep-ex]
10.1007/JHEP06(2012)160
JHEP **1206**, 160 (2012)
622. **“Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1204.3774 [hep-ex]

10.1016/j.physletb.2012.08.026

Phys. Lett. B **716**, 260 (2012)

623. **“Search for leptonic decays of W bosons in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1204.4764 [hep-ex]

10.1007/JHEP08(2012)023

JHEP **1208**, 023 (2012)

624. **“Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1204.5341 [hep-ex]

10.1007/JHEP06(2012)169

JHEP **1206**, 169 (2012)

625. **“Observation of a new $\Xi(b)$ baryon”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1204.5955 [hep-ex]

10.1103/PhysRevLett.108.252002

Phys. Rev. Lett. **108**, 252002 (2012)

626. **“Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1205.0206 [nucl-ex]

10.1016/j.physletb.2012.11.003

Phys. Lett. B **718**, 773 (2013)

627. **“Search for heavy long-lived charged particles in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1205.0272 [hep-ex]

10.1016/j.physletb.2012.06.023

Phys. Lett. B **713**, 408 (2012)

628. **“Measurement of the Λ_{cb} cross section and the $\bar{\Lambda}(b)$ to Λ_{cb} ratio with Λ_{cb} to J/Ψ Λ decays in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1205.0594 [hep-ex]

10.1016/j.physletb.2012.05.063

Phys. Lett. B **714**, 136 (2012)

629. **“Measurement of the pseudorapidity and centrality dependence of the transverse energy density in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.2488 [nucl-ex]
10.1103/PhysRevLett.109.152303
Phys. Rev. Lett. **109**, 152303 (2012)
630. **“Search for new physics in events with same-sign dileptons and b -tagged jets in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.3933 [hep-ex]
10.1007/JHEP08(2012)110
JHEP **1208**, 110 (2012)
631. **“Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.5736 [hep-ex]
10.1007/JHEP07(2012)143
JHEP **1207**, 143 (2012)
632. **“Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.5872 [nucl-ex]
10.1007/JHEP10(2012)087
JHEP **1210**, 087 (2012)
633. **“Study of W boson production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.6334 [nucl-ex]
10.1016/j.physletb.2012.07.025
Phys. Lett. B **715**, 66 (2012)
634. **“Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1205.6615 [hep-ex]
10.1103/PhysRevLett.109.071803
Phys. Rev. Lett. **109**, 071803 (2012)
635. **“Search for a W' or Techni- ρ Decaying into WZ in pp Collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.0433 [hep-ex]
10.1103/PhysRevLett.109.141801
Phys. Rev. Lett. **109**, 141801 (2012)

636. **“Search for high mass resonances decaying into τ^- lepton pairs in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.1725 [hep-ex]
10.1016/j.physletb.2012.07.062
Phys. Lett. B **716**, 82 (2012)
637. **“Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.1849 [hep-ex]
10.1016/j.physletb.2012.06.051
Phys. Lett. B **714**, 158 (2012)
638. **“Measurement of the electron charge asymmetry in inclusive W production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.2598 [hep-ex]
10.1103/PhysRevLett.109.111806
Phys. Rev. Lett. **109**, 111806 (2012)
639. **“Search for charge-asymmetric production of W ’ bosons in top pair + jet events from pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.3921 [hep-ex]
10.1016/j.physletb.2012.09.048
Phys. Lett. B **717**, 351 (2012)
640. **“Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.3949 [hep-ex]
10.1016/j.physletb.2012.11.036
Phys. Lett. B **718**, 815 (2013)
641. **“Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.4071 [physics.ins-det]
10.1088/1748-0221/7/10/P10002
JINST **7**, P10002 (2012)
642. **“Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.5663 [hep-ex]

10.1007/JHEP09(2012)094
JHEP **1209**, 094 (2012)

643. **“Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1206.6326 [hep-ex]
10.1103/PhysRevLett.109.121801
Phys. Rev. Lett. **109**, 121801 (2012)
644. **“Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.0065 [hep-ex]
10.1016/j.physletb.2012.09.028
Phys. Lett. B **717**, 129 (2012)
645. **“Search for stopped long-lived particles produced in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.0106 [hep-ex]
10.1007/JHEP08(2012)026
JHEP **1208**, 026 (2012)
646. **“Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.0627 [hep-ex]
10.1007/JHEP11(2012)172
JHEP **1211**, 172 (2012)
647. **“Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1130 [hep-ex]
10.1007/JHEP09(2012)111
JHEP **1209**, 111 (2012)
648. **“Search for supersymmetry in hadronic final states using MT_2 in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1798 [hep-ex]
10.1007/JHEP10(2012)018
JHEP **1210**, 018 (2012)
649. **“Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.1898 [hep-ex]
10.1103/PhysRevLett.109.171803
Phys. Rev. Lett. **109**, 171803 (2012)
650. **“Measurement of the underlying event activity in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV with the novel jet-area/median approach”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.2392 [hep-ex]
10.1007/JHEP08(2012)130
JHEP **1208**, 130 (2012)
651. **“A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.2666 [hep-ex]
10.1140/epjc/s10052-012-2189-5
Eur. Phys. J. C **72**, 2189 (2012)
652. **“Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.3973 [hep-ex]
10.1016/j.physletb.2012.10.082
Phys. Lett. B **718**, 752 (2013)
653. **“Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76,$ and 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.4724 [hep-ex]
10.1140/epjc/s10052-012-2164-1
Eur. Phys. J. C **72**, 2164 (2012)
654. **“Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.5406 [hep-ex]
10.1103/PhysRevD.86.052013
Phys. Rev. D **86**, 052013 (2012)
655. **“Search for heavy Majorana neutrinos in $\mu^+\mu^+[\mu^-\mu^-]$ and $e^+e^+[e^-e^-]$ events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.6079 [hep-ex]

- 10.1016/j.physletb.2012.09.012
Phys. Lett. B **717**, 109 (2012)
656. **“Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1207.7235 [hep-ex]
10.1016/j.physletb.2012.08.021
Phys. Lett. B **716**, 30 (2012)
657. **“Search for a W ’ boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.0956 [hep-ex]
10.1016/j.physletb.2012.12.008
Phys. Lett. B **718**, 1229 (2013)
658. **“Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.0957 [hep-ex]
10.1016/j.physletb.2012.12.045
Phys. Lett. B **718**, 1252 (2013)
659. **“Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2470 [nucl-ex]
10.1103/PhysRevLett.110.042301
Phys. Rev. Lett. **110**, no. 4, 042301 (2013)
660. **“Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2671 [hep-ex]
10.1007/JHEP11(2012)067
JHEP **1211**, 067 (2012)
661. **“Observation of sequential Upsilon suppression in PbPb collisions”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.2826 [nucl-ex]
10.1103/PhysRevLett.109.222301
Phys. Rev. Lett. **109**, 222301 (2012)
662. **“Search for three-jet resonances in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1208.2931 [hep-ex]
10.1016/j.physletb.2012.10.048
Phys. Lett. B **718**, 329 (2012)

663. **“Study of the dijet mass spectrum in $pp \rightarrow W + \text{jets}$ events at $\sqrt{s} = 7 \text{ TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.3477 [hep-ex]
10.1103/PhysRevLett.109.251801
Phys. Rev. Lett. **109**, 251801 (2012)

664. **“Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1208.4859 [hep-ex]
10.1103/PhysRevD.86.072010
Phys. Rev. D **86**, 072010 (2012)

665. **“Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ with a lepton in the final state”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.0471 [hep-ex]
10.1016/j.physletb.2012.10.038
Phys. Lett. B **718**, 307 (2012)

666. **“Combined search for the quarks of a sequential fourth generation”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.1062 [hep-ex]
10.1103/PhysRevD.86.112003
Phys. Rev. D **86**, 112003 (2012)

667. **“Search for exclusive or semi-exclusive photon pair production and observation of exclusive and semi-exclusive electron pair production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.1666 [hep-ex]
10.1007/JHEP11(2012)080
JHEP **1211**, 080 (2012)

668. **“Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.1805 [hep-ex]
10.1103/PhysRevD.87.012006
Phys. Rev. D **87**, no. 1, 012006 (2013)

669. **“Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.2319 [hep-ex]
10.1007/JHEP12(2012)105
JHEP **1212**, 105 (2012)
670. **“Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.2393 [hep-ex]
10.1140/epjc/s10052-012-2202-z
Eur. Phys. J. C **72**, 2202 (2012)
671. **“Measurement of the $Y(1S)$, $Y(2S)$ and $Y(3S)$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.2922 [hep-ex]
10.1103/PhysRevLett.110.081802
Phys. Rev. Lett. **110**, no. 8, 081802 (2013)
672. **“Evidence for associated production of a single top quark and W boson in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.3489 [hep-ex]
10.1103/PhysRevLett.110.022003
Phys. Rev. Lett. **110**, 022003 (2013)
673. **“Search for a narrow spin-2 resonance decaying to a pair of Z vector bosons in the semileptonic final state”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.3807 [hep-ex]
10.1016/j.physletb.2012.11.063
Phys. Lett. B **718**, 1208 (2013)
674. **“Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.3937 [hep-ex]
10.1007/JHEP11(2012)088
JHEP **1211**, 088 (2012)
675. **“Search for resonant $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1209.4397 [hep-ex]
10.1007/JHEP12(2012)015
JHEP **1212**, 015 (2012)

676. **“Measurement of the single-top-quark t -channel cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.4533 [hep-ex]
10.1007/JHEP12(2012)035
JHEP **1212**, 035 (2012)
677. **“Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1209.6620 [hep-ex]
10.1007/JHEP11(2012)147
JHEP **1211**, 147 (2012)
678. **“Search for anomalous production of highly boosted Z bosons decaying to dimuons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.0867 [hep-ex]
10.1016/j.physletb.2013.03.037
Phys. Lett. B **722**, 28 (2013)
679. **“Measurement of the relative prompt production rate of $\chi(c2)$ and $\chi(c1)$ in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.0875 [hep-ex]
10.1140/epjc/s10052-012-2251-3
Eur. Phys. J. C **72**, 2251 (2012)
680. **“Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.1797 [hep-ex]
10.1016/j.physletb.2012.10.070
Phys. Lett. B **718**, 348 (2012)
681. **“Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.2052 [hep-ex]

10.1016/j.physletb.2012.12.055

Phys. Lett. B **719**, 42 (2013)

682. **“Search for fractionally charged particles in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.2311 [hep-ex]

10.1103/PhysRevD.87.092008

Phys. Rev. D **87**, no. 9, 092008 (2013)

683. **“Search for narrow resonances and quantum black holes in inclusive and b -tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.2387 [hep-ex]

10.1007/JHEP01(2013)013

JHEP **1301**, 013 (2013)

684. **“Search for heavy neutrinos and W[R] bosons with right-handed couplings in a left-right symmetric model in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.2402 [hep-ex]

10.1103/PhysRevLett.109.261802

Phys. Rev. Lett. **109**, 261802 (2012)

685. **“Search for excited leptons in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.2422 [hep-ex]

10.1016/j.physletb.2013.02.031

Phys. Lett. B **720**, 309 (2013)

686. **“Observation of Z decays to four leptons with the CMS detector at the LHC”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.3844 [hep-ex]

10.1007/JHEP12(2012)034

JHEP **1212**, 034 (2012)

687. **“Observation of long-range near-side angular correlations in proton-lead collisions at the LHC”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1210.5482 [nucl-ex]

10.1016/j.physletb.2012.11.025

Phys. Lett. B **718**, 795 (2013)

688. **“Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV”**

- S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.5627 [hep-ex]
10.1007/JHEP12(2012)055
JHEP **1212**, 055 (2012)
689. **“Search for pair production of third-generation leptoquarks and top squarks in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.5629 [hep-ex]
10.1103/PhysRevLett.110.081801
Phys. Rev. Lett. **110**, no. 8, 081801 (2013)
690. **“Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.6718 [hep-ex]
10.1016/j.physletb.2013.03.024
Phys. Lett. B **722**, 5 (2013)
691. **“Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.7471 [hep-ex]
10.1007/JHEP01(2013)154
JHEP **1301**, 154 (2013)
692. **“Measurement of the sum of WW and WZ production with W +dijet events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.7544 [hep-ex]
10.1140/epjc/s10052-013-2283-3
Eur. Phys. J. C **73**, no. 2, 2283 (2013)
693. **“Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.7619 [hep-ex]
10.1016/j.physletb.2013.09.009
Phys. Lett. B **726**, 564 (2013)
694. **“Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b-quark jets in 7 TeV pp collisions using the variable α_T ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1210.8115 [hep-ex]

10.1007/JHEP01(2013)077
JHEP **1301**, 077 (2013)

695. **“Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.2220 [hep-ex]
10.1140/epjc/s10052-013-2339-4
Eur. Phys. J. C **73**, no. 3, 2339 (2013)

696. **“Search in leptonic channels for heavy resonances decaying to long-lived neutral particles”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.2472 [hep-ex]
10.1007/JHEP02(2013)085
JHEP **1302**, 085 (2013)

697. **“Search for supersymmetry in final states with a single lepton, b -quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.3143 [hep-ex]
10.1103/PhysRevD.87.052006
Phys. Rev. D **87**, no. 5, 052006 (2013)

698. **“Search for Z' resonances decaying to $t\bar{t}$ in dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.3338 [hep-ex]
10.1103/PhysRevD.87.072002
Phys. Rev. D **87**, no. 7, 072002 (2013)

699. **“Identification of b -quark jets with the CMS experiment”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.4462 [hep-ex]
10.1088/1748-0221/8/04/P04013
JINST **8**, P04013 (2013)

700. **“Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.4784 [hep-ex]
10.1007/JHEP03(2013)111
JHEP **1303**, 111 (2013)

701. **“Measurement of the ZZ production cross section and search for anomalous couplings in 2 l2l’ final states in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.4890 [hep-ex]
10.1007/JHEP01(2013)063
JHEP **1301**, 063 (2013)
702. **“Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1211.5779 [hep-ex]
10.1007/JHEP02(2013)036
JHEP **1302**, 036 (2013)
703. **“Search for long-lived particles decaying to photons and missing energy in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.1838 [hep-ex]
10.1016/j.physletb.2013.04.027
Phys. Lett. B **722**, 273 (2013)
704. **“Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.1910 [hep-ex]
10.1016/j.physletb.2013.05.040
Phys. Lett. B **723**, 280 (2013)
705. **“Search for contact interactions in $\mu^+\mu^-$ events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.4563 [hep-ex]
10.1103/PhysRevD.87.032001
Phys. Rev. D **87**, no. 3, 032001 (2013)
706. **“Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s} = 7$ TeV and $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6175 [hep-ex]
10.1016/j.physletb.2013.02.003
Phys. Lett. B **720**, 63 (2013)
707. **“Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6194 [hep-ex]

10.1007/JHEP03(2013)037, 10.1007/JHEP07(2013)041
JHEP **1303**, 037 (2013), [Erratum-ibid. **1307**, 041 (2013)]

708. **“Inclusive search for supersymmetry using the razor variables in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6961 [hep-ex]
10.1103/PhysRevLett.111.081802
Phys. Rev. Lett. **111**, no. 8, 081802 (2013)
709. **“Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton + jets final states”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6682
10.1016/j.physletb.2013.02.021
Phys. Lett. B **720**, 83 (2013)
710. **“Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the CMS detector”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6660 [hep-ex]
10.1103/PhysRevD.87.112002, 10.1103/PhysRevD.87.119902
Phys. Rev. D **87**, no. 11, 112002 (2013), [Erratum-ibid. D **87**, no. 11, 119902 (2013)]
711. **“Study of the Mass and Spin-Parity of the Higgs Boson Candidate Via Its Decays to Z Boson Pairs”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6639 [hep-ex]
10.1103/PhysRevLett.110.081803
Phys. Rev. Lett. **110**, no. 8, 081803 (2013)
712. **“Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1212.6428 [hep-ex]
10.1140/epjc/s10052-013-2404-z
Eur. Phys. J. C **73**, 2404 (2013)
713. **“Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.0916 [hep-ex]
10.1103/PhysRevD.87.072001
Phys. Rev. D **87**, no. 7, 072001 (2013)

714. **“Event shapes and azimuthal correlations in $Z + \text{jets}$ events in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.1646 [hep-ex]
10.1016/j.physletb.2013.04.025
Phys. Lett. B **722**, 238 (2013)
715. **“Interpretation of Searches for Supersymmetry with simplified Models”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.2175 [hep-ex]
10.1103/PhysRevD.88.052017
Phys. Rev. D **88**, no. 5, 052017 (2013)
716. **“Search for physics beyond the standard model in events with τ leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.3792 [hep-ex]
10.1140/epjc/s10052-013-2493-8
Eur. Phys. J. C **73**, 2493 (2013)
717. **“Measurement of $W+W-$ and ZZ production cross sections in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.4698 [hep-ex]
10.1016/j.physletb.2013.03.027
Phys. Lett. B **721**, 190 (2013)
718. **“Search for contact interactions using the inclusive jet p_T spectrum in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.5023 [hep-ex]
10.1103/PhysRevD.87.052017
Phys. Rev. D **87**, no. 5, 052017 (2013)
719. **“Measurement of the top-antitop production cross section in the τ +jets channel in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1301.5755 [hep-ex]
10.1140/epjc/s10052-013-2386-x
Eur. Phys. J. C **73**, no. 4, 2386 (2013)
720. **“Measurement of the $t\bar{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.0508 [hep-ex]

10.1007/JHEP05(2013)065
JHEP **1305**, 065 (2013)

721. **“Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s}=7\text{TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.0531 [hep-ex]
10.1103/PhysRevLett.110.141802
Phys. Rev. Lett. **110**, no. 14, 141802 (2013)
722. **“Searches for Higgs bosons in pp collisions at $\sqrt{s} = 7$ and 8 TeV in the context of four-generation and fermiophobic models”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.1764 [hep-ex]
10.1016/j.physletb.2013.06.043
Phys. Lett. B **725**, 36 (2013)
723. **“Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76,$ and 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.2394 [hep-ex]
10.1007/JHEP04(2013)072
JHEP **1304**, 072 (2013)
724. **“Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.2812 [hep-ex]
10.1103/PhysRevD.87.072005
Phys. Rev. D **87**, no. 7, 072005 (2013)
725. **“Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.2892 [hep-ex]
10.1016/j.physletb.2013.04.017
Phys. Lett. B **722**, 207 (2013)
726. **“Measurement of the X(3872) production cross section via decays to J/ψ pi pi in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.3968 [hep-ex]
10.1007/JHEP04(2013)154
JHEP **1304**, 154 (2013)

727. **“Search for narrow resonances using the dijet mass spectrum in pp collisions at $\sqrt{s}=8\text{TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1302.4794 [hep-ex]
10.1103/PhysRevD.87.114015
Phys. Rev. D **87**, no. 11, 114015 (2013)
728. **“Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.0763 [hep-ex]
10.1007/JHEP05(2013)145
JHEP **1305**, 145 (2013)
729. **“Search for supersymmetry in hadronic final states with missing transverse energy using the variables α_T and b-quark multiplicity in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.2985 [hep-ex]
10.1140/epjc/s10052-013-2568-6
Eur. Phys. J. C **73**, no. 9, 2568 (2013)
730. **“Measurement of associated production of vector bosons and top quark-antiquark pairs at $\sqrt{s} = 7 \text{ TeV}$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.3239 [hep-ex]
10.1103/PhysRevLett.110.172002
Phys. Rev. Lett. **110**, 172002 (2013)
731. **“A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider”**
S. Chatrchyan *et al.* [CMS Collaboration].
10.1126/science.1230816
Science **338**, 1569 (2012).
732. **“Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.4571 [hep-ex]
10.1007/JHEP06(2013)081
JHEP **1306**, 081 (2013)
733. **“Studies of jet mass in dijet and W/Z + jet events”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.4811 [hep-ex]

10.1007/JHEP05(2013)090
JHEP **1305**, 090 (2013)

734. **“Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.5338 [hep-ex]
10.1007/JHEP07(2013)178
JHEP **1307**, 178 (2013)

735. **“Measurement of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ cross sections in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1303.5900 [hep-ex]
10.1016/j.physletb.2013.10.033
Phys. Lett. B **727**, 101 (2013)

736. **“Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1304.0213 [hep-ex]
10.1140/epjc/s10052-013-2469-8
Eur. Phys. J. C **73**, 2469 (2013)

737. **“Measurement of masses in the $t\bar{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1304.5783 [hep-ex]
10.1140/epjc/s10052-013-2494-7
Eur. Phys. J. C **73**, 2494 (2013)

738. **“Measurement of the Λ_b^0 lifetime in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1304.7495 [hep-ex]
10.1007/JHEP07(2013)163
JHEP **1307**, 163 (2013)

739. **“Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s} = 7$ TeV and first determination of the strong coupling constant in the TeV range”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1304.7498 [hep-ex]
10.1140/epjc/s10052-013-2604-6
Eur. Phys. J. C **73**, no. 10, 2604 (2013)

740. **“Searches for long-lived charged particles in pp collisions at $\sqrt{s}=7$ and 8 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.0491 [hep-ex]
10.1007/JHEP07(2013)122
JHEP **1307**, 122 (2013)
741. **“Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.0609 [nucl-ex]
10.1016/j.physletb.2013.06.028
Phys. Lett. B **724**, 213 (2013)
742. **“Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.2390 [hep-ex]
10.1016/j.physletb.2013.06.058
Phys. Lett. B **725**, 243 (2013)
743. **“Study of exclusive two-photon production of W^+W^- in pp collisions at $\sqrt{s} = 7$ TeV and constraints on anomalous quartic gauge couplings”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.5596 [hep-ex]
10.1007/JHEP07(2013)116
JHEP **1307**, 116 (2013)
744. **“Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.6016 [hep-ex]
10.1103/PhysRevD.88.052001
Phys. Rev. D **88**, 052001 (2013)
745. **“Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1305.7389 [hep-ex]
10.1007/JHEP10(2013)062
JHEP **1310**, 062 (2013)

746. **“Measurement of the W^+W^- Cross section in pp Collisions at $\sqrt{s} = 7$ TeV and Limits on Anomalous $WW\gamma$ and WWZ couplings”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1306.1126 [hep-ex]
 10.1140/epjc/s10052-013-2610-8
 Eur. Phys. J. C **73**, no. 10, 2610 (2013)
747. **“Energy Calibration and Resolution of the CMS Electromagnetic Calorimeter in pp Collisions at $\sqrt{s} = 7$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1306.2016 [hep-ex]
 10.1088/1748-0221/8/09/P09009
 JINST **8**, P09009 (2013)
748. **“Search for top squarks in R -parity-violating supersymmetry using three or more leptons and b -tagged jets”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1306.6643 [hep-ex]
 10.1103/PhysRevLett.111.221801
 Phys. Rev. Lett. **111**, no. 22, 221801 (2013)
749. **“The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s} = 7$ TeV at the LHC”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1306.6905 [physics.ins-det]
 10.1088/1748-0221/8/11/P11002
 JINST **8**, P11002 (2013)
750. **“Determination of the top-quark pole mass and strong coupling constant from the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1307.1907 [hep-ex]
 10.1016/j.physletb.2014.08.040, 10.1016/j.physletb.2013.12.009
 Phys. Lett. B **728**, 496 (2014), [Erratum-ibid. B **728**, 526 (2014)]
751. **“Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
 S. Chatrchyan *et al.* [CMS Collaboration].
 arXiv:1307.3442 [hep-ex]
 10.1140/epjc/210052-014-2847-x, 10.1140/epjc/s10052-014-2847-x
 Eur. Phys. J. C **74**, no. 6, 2847 (2014)

752. **“Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.4617 [hep-ex]
10.1140/epjc/s10052-014-2758-x
Eur. Phys. J. C **74**, no. 4, 2758 (2014)
753. **“Measurement of the B(s) to $\mu^+ \mu^-$ branching fraction and search for B0 to $\mu^+ \mu^-$ with the CMS Experiment”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.5025 [hep-ex]
10.1103/PhysRevLett.111.101804
Phys. Rev. Lett. **111**, 101804 (2013)
754. **“Search for a Higgs boson decaying into a Z and a photon in pp collisions at $\sqrt{s} = 7$ and 8 TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.5515 [hep-ex]
10.1016/j.physletb.2013.09.057
Phys. Lett. B **726**, 587 (2013)
755. **“Measurement of the prompt J/ψ and $\psi(2S)$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1307.6070 [hep-ex]
10.1016/j.physletb.2013.10.055
Phys. Lett. B **727**, 381 (2013)
756. **“Search for top-squark pair production in the single-lepton final state in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.1586 [hep-ex]
10.1140/epjc/s10052-013-2677-2
Eur. Phys. J. C **73**, no. 12, 2677 (2013)
757. **“Angular analysis and branching fraction measurement of the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ ”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.3409 [hep-ex]
10.1016/j.physletb.2013.10.017
Phys. Lett. B **727**, 77 (2013)
758. **“Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1308.3879 [hep-ex]

10.1007/JHEP10(2013)167
JHEP **1310**, 167 (2013)

759. **“Measurement of the $W\gamma$ and $Z\gamma$ inclusive cross sections in pp collisions at $\sqrt{s} = 7\text{TeV}$ and limits on anomalous triple gauge boson couplings”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1308.6832 [hep-ex]

10.1103/PhysRevD.89.092005

Phys. Rev. D **89**, no. 9, 092005 (2014)

760. **“Search for a new bottomonium state decaying to $\Upsilon(1S)\pi^+\pi^-$ in pp collisions at $\sqrt{s} = 8\text{TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1309.0250 [hep-ex]

10.1016/j.physletb.2013.10.016

Phys. Lett. B **727**, 57 (2013)

761. **“Measurement of the production cross section for $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ in pp collisions at $\sqrt{s} = 7\text{TeV}$ and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1309.1117 [hep-ex]

10.1007/JHEP10(2013)164

JHEP **1310**, 164 (2013)

762. **“Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}=8\text{TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1309.2030 [hep-ex]

10.1103/PhysRevLett.111.211804, 10.1103/PhysRevLett.112.119903

Phys. Rev. Lett. **111**, no. 21, 211804 (2013), [Erratum-ibid. **112**, no. 11, 119903 (2014)]

763. **“Observation of a peaking structure in the $J/\psi\phi$ mass spectrum from $B^\pm \rightarrow J/\psi\phi K^\pm$ decays”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1309.6920 [hep-ex]

10.1016/j.physletb.2014.05.055

Phys. Lett. B **734**, 261 (2014)

764. **“Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.0878 [nucl-ex]

10.1016/j.physletb.2014.01.042

Phys. Lett. B **730**, 243 (2014)

765. **“Measurement of associated $W +$ charm production in pp collisions at $\sqrt{s} = 7\text{TeV}$ ”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.1138 [hep-ex]
10.1007/JHEP02(2014)013
JHEP **1402**, 013 (2014)

766. **“Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.1349 [hep-ex]
10.1007/JHEP12(2013)039
JHEP **1312**, 039 (2013)

767. **“Search for baryon number violation in top-quark decays”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.1618 [hep-ex]
10.1016/j.physletb.2014.02.033
Phys. Lett. B **731**, 173 (2014)

768. **“Rapidity distributions in exclusive Z + jet and γ + jet events in pp collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.3082 [hep-ex]
10.1103/PhysRevD.88.112009
Phys. Rev. D **88**, no. 11, 112009 (2013)

769. **“Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.3687 [hep-ex]
10.1103/PhysRevD.89.012003
Phys. Rev. D **89**, no. 1, 012003 (2014)

770. **“Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.4554 [hep-ex]
10.1140/epjc/s10052-013-2674-5
Eur. Phys. J. C **73**, no. 12, 2674 (2013)

771. **“Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1310.7291 [hep-ex]
10.1007/JHEP12(2013)030
JHEP **1312**, 030 (2013)

772. **“Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1310.8651 [nucl-ex]
10.1103/PhysRevC.89.044906
Phys. Rev. C **89**, no. 4, 044906 (2014)
773. **“Searches for light- and heavy-flavour three-jet resonances in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.1799 [hep-ex]
10.1016/j.physletb.2014.01.049
Phys. Lett. B **730**, 193 (2014)
774. **“Measurements of $t\bar{t}$ spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.3924 [hep-ex]
10.1103/PhysRevLett.112.182001
Phys. Rev. Lett. **112**, no. 18, 182001 (2014)
775. **“Search for supersymmetry in pp collisions at $\sqrt{s}=8$ TeV in events with a single lepton, large jet multiplicity, and multiple b jets”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.4937 [hep-ex]
10.1016/j.physletb.2014.04.023
Phys. Lett. B **733**, 328 (2014)
776. **“Search for pair production of excited top quarks in the lepton + jets final state”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.5357 [hep-ex]
10.1007/JHEP06(2014)125
JHEP **1406**, 125 (2014)
777. **“Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.5815 [hep-ex]
10.1140/epjc/s10052-014-2901-8
Eur. Phys. J. C **74**, no. 6, 2901 (2014)
778. **“Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.6141 [hep-ex]

10.1007/JHEP06(2014)009
JHEP **1406**, 009 (2014)

779. **“Inclusive search for a vector-like T quark with charge $\frac{2}{3}$ in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1311.7667 [hep-ex]
10.1016/j.physletb.2014.01.006
Phys. Lett. B **729**, 149 (2014)
780. **“Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.1129 [hep-ex]
10.1007/JHEP01(2014)096
JHEP **1401**, 096 (2014)
781. **“Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.1845 [nucl-ex]
10.1007/JHEP02(2014)088
JHEP **1402**, 088 (2014)
782. **“Search for top-quark partners with charge 5/3 in the same-sign dilepton final state”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.2391 [hep-ex]
10.1103/PhysRevLett.112.171801
Phys. Rev. Lett. **112**, no. 17, 171801 (2014)
783. **“Search for top squark and higgsino production using diphoton Higgs boson decays”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.3310 [hep-ex]
10.1103/PhysRevLett.112.161802
Phys. Rev. Lett. **112**, 161802 (2014)
784. **“Search for Flavor-Changing Neutral Currents in Top-Quark Decays $t \rightarrow Zq$ in pp Collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.4194 [hep-ex]
10.1103/PhysRevLett.112.171802
Phys. Rev. Lett. **112**, no. 17, 171802 (2014)
785. **“Evidence of b-Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1312.4198 [nucl-ex]
10.1103/PhysRevLett.113.132301
Phys. Rev. Lett. **113**, no. 13, 132301 (2014)

786. **“Measurement of the properties of a Higgs boson in the four-lepton final state”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.5353 [hep-ex]
10.1103/PhysRevD.89.092007
Phys. Rev. D **89**, no. 9, 092007 (2014)

787. **“Study of double parton scattering using $W + 2$ -jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.5729 [hep-ex]
10.1007/JHEP03(2014)032
JHEP **1403**, 032 (2014)

788. **“Measurement of the muon charge asymmetry in inclusive $pp \rightarrow W + X$ production at $\sqrt{s} = 7$ TeV and an improved determination of light parton distribution functions”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.6283 [hep-ex]
10.1103/PhysRevD.90.032004
Phys. Rev. D **90**, no. 3, 032004 (2014)

789. **“Event activity dependence of $Y(nS)$ production in $\sqrt{s_{NN}}=5.02$ TeV pPb and $\sqrt{s}=2.76$ TeV pp collisions”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.6300 [nucl-ex]
10.1007/JHEP04(2014)103
JHEP **1404**, 103 (2014)

790. **“Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.6440 [hep-ex]
10.1103/PhysRevD.89.092010
Phys. Rev. D **89**, no. 9, 092010 (2014)

791. **“Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}=7$ TeV”**

S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.6608 [hep-ex]
10.1016/j.physletb.2014.06.041
Phys. Lett. B **735**, 204 (2014)

792. **“Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1312.7582 [hep-ex], arXiv:1312.7582
10.1007/JHEP02(2014)024, 10.1007/JHEP02(2014)102
JHEP **1402**, 024 (2014), [Erratum-ibid. **1402**, 102 (2014)]
793. **“Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1401.2942 [hep-ex]
10.1103/PhysRevLett.112.231802
Phys. Rev. Lett. **112**, no. 23, 231802 (2014)
794. **“Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1401.4433 [nucl-ex]
10.1140/epjc/s10052-014-2951-y
Eur. Phys. J. C **74**, no. 7, 2951 (2014)
795. **“Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1401.5041 [hep-ex]
10.1007/JHEP05(2014)104
JHEP **1405**, 104 (2014)
796. **“Evidence for the direct decay of the 125 GeV Higgs boson to fermions”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1401.6527 [hep-ex]
10.1038/nphys3005
Nature Phys. **10**, 557 (2014)
797. **“Measurement of inclusive W and Z boson production cross sections in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1402.0923 [hep-ex]
10.1103/PhysRevLett.112.191802
Phys. Rev. Lett. **112**, 191802 (2014)
798. **“Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].

arXiv:1402.1521 [hep-ex]
10.1007/JHEP06(2014)120
JHEP **1406**, 120 (2014)

799. **“Search for $W \rightarrow tb$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1402.2176 [hep-ex]
10.1007/JHEP05(2014)108
JHEP **1405**, 108 (2014)
800. **“Measurements of the $t\bar{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1402.3803 [hep-ex]
10.1007/JHEP04(2014)191
JHEP **1404**, 191 (2014)
801. **“Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1402.4770 [hep-ex]
10.1007/JHEP06(2014)055
JHEP **1406**, 055 (2014)
802. **“Alignment of the CMS tracker with LHC and cosmic ray data”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1403.2286 [physics.ins-det]
10.1088/1748-0221/9/06/P06009
JINST **9**, P06009 (2014)
803. **“Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1403.3047 [hep-ex]
10.1140/epjc/s10052-014-2973-5
Eur. Phys. J. C **74**, no. 8, 2973 (2014)
804. **“Measurement of the t-channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1403.7366 [hep-ex]
10.1007/JHEP06(2014)090
JHEP **1406**, 090 (2014)

805. **“Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1404.1344 [hep-ex]
10.1140/epjc/s10052-014-2980-6
Eur. Phys. J. C **74**, 2980 (2014)
806. **“Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1404.2292 [hep-ex]
10.1016/j.physletb.2014.06.076
Phys. Lett. B **736**, 33 (2014)
807. **“Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1404.3171 [hep-ex]
10.1140/epjc/s10052-014-3014-0
Eur. Phys. J. C **74**, no. 8, 3014 (2014)
808. **“Search for $WW\gamma$ and $WZ\gamma$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1404.4619 [hep-ex]
10.1103/PhysRevD.90.032008
Phys. Rev. D **90**, no. 3, 032008 (2014)
809. **“Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s} = 8$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1404.5801 [hep-ex]
10.1103/PhysRevD.90.032006
Phys. Rev. D **90**, no. 3, 032006 (2014)
810. **“Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments”**
S. Chatrchyan *et al.* [CMS and TOTEM Collaborations].
arXiv:1405.0722 [hep-ex]
10.1140/epjc/s10052-014-3053-6
Eur. Phys. J. C **74**, no. 10, 3053 (2014)
811. **“Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1405.1994 [hep-ex]
10.1007/JHEP08(2014)173
JHEP **1408**, 173 (2014)

812. **“Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3447 [hep-ex]
10.1007/JHEP08(2014)174
JHEP **1408**, 174 (2014)
813. **“Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3455 [hep-ex]
10.1016/j.physletb.2014.06.077
Phys. Lett. B **736**, 64 (2014)
814. **“Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.3886 [hep-ex]
10.1016/j.physletb.2014.07.053
Phys. Lett. B **736**, 371 (2014)
815. **“Search for supersymmetry with razor variables in pp collisions at $\sqrt{s}=7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.3961 [hep-ex]
10.1103/PhysRevD.90.112001
Phys. Rev. D **90**, no. 11, 112001 (2014)
816. **“Description and performance of track and primary-vertex reconstruction with the CMS tracker”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.6569 [physics.ins-det]
10.1088/1748-0221/9/10/P10009
JINST **9**, no. 10, P10009 (2014)
817. **“Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1405.7225 [hep-ex]
10.1140/epjc/s10052-014-3129-3
Eur. Phys. J. C **74**, no. 11, 3129 (2014)

818. **“Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.7570 [hep-ex]
10.1140/epjc/s10052-014-3036-7
Eur. Phys. J. C **74**, no. 9, 3036 (2014)
819. **“Search for jet extinction in the inclusive jet- p_t spectrum from proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1405.7653 [hep-ex]
10.1103/PhysRevD.90.032005
Phys. Rev. D **90**, no. 3, 032005 (2014)
820. **“Measurement of the ratio of inclusive jet cross sections using the anti- k_T algorithm with radius parameters $R=0.5$ and 0.7 in pp collisions at $\sqrt{s} = 7$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1406.0324 [hep-ex]
10.1103/PhysRevD.90.072006
Phys. Rev. D **90**, no. 7, 072006 (2014)
821. **“Measurement of prompt J/ψ pair production in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1406.0484 [hep-ex]
10.1007/JHEP09(2014)094
JHEP **1409**, 094 (2014)
822. **“Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1406.0932 [nucl-ex]
10.1103/PhysRevC.90.024908
Phys. Rev. C **90**, no. 2, 024908 (2014)
823. **“Search for excited quarks in the γ +jet final state in protonproton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1406.5171 [hep-ex]
10.1016/j.physletb.2014.09.048
Phys. Lett. B **738**, 274 (2014)
824. **“Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1406.7830 [hep-ex]

10.1140/epjc/s10052-014-3060-7

Eur. Phys. J. C **74**, no. 9, 3060 (2014)

825. **“Observation of the diphoton decay of the Higgs boson and measurement of its properties”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.0558 [hep-ex]
10.1140/epjc/s10052-014-3076-z
Eur. Phys. J. C **74**, no. 10, 3076 (2014)
826. **“Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.2856 [hep-ex]
10.1007/JHEP10(2014)087
JHEP **1410**, 87 (2014)
827. **“Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.3683 [hep-ex]
10.1140/epjc/s10052-014-3149-z
Eur. Phys. J. C **74**, no. 11, 3149 (2014)
828. **“Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV in dilepton final states containing one τ lepton”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1407.6643 [hep-ex]
10.1016/j.physletb.2014.10.032
Phys. Lett. B **739**, 23 (2014)
829. **“Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.0806 [hep-ex]
10.1016/j.physletb.2014.10.063
Phys. Lett. B **739**, 229 (2014)
830. **“Search for the associated production of the Higgs boson with a top-quark pair”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.1682 [hep-ex]
10.1007/JHEP09(2014)087, 10.1007/JHEP10(2014)106
JHEP **1409**, 087 (2014), [Erratum-ibid. **1410**, 106 (2014)]

831. **“Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.2745 [hep-ex]
832. **“Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $\sqrt{s}=7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.3104 [hep-ex]
833. **“Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.3316 [hep-ex]
10.1007/JHEP10(2014)160
JHEP **1410**, 160 (2014)
834. **“Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1408.3583 [hep-ex]
835. **“Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.3168 [hep-ex]
10.1103/PhysRevD.90.092007
Phys. Rev. D **90**, no. 9, 092007 (2014)
836. **“Measurement of the production cross section ratio $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$ in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.5761 [hep-ex]
837. **“Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1409.7339 [hep-ex]
10.1007/JHEP11(2014)154
JHEP **1411**, 154 (2014)
838. **“Search for monotop signatures in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.1149 [hep-ex]

839. **“Measurement of Prompt $\psi(2S) \rightarrow J/\psi$ Yield Ratios in Pb-Pb and $p - p$ Collisions at $\sqrt{s_{NN}} = 2.76\text{TeV}$ ”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.1804 [nucl-ex]
10.1103/PhysRevLett.113.262301
Phys. Rev. Lett. **113**, no. 26, 262301 (2014)
840. **“Searches for heavy Higgs bosons in two-Higgs-doublet models and for tch decay using multi-lepton and diphoton final states in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.2751 [hep-ex]
10.1103/PhysRevD.90.112013
Phys. Rev. D **90**, no. 11, 112013 (2014)
841. **“Identification techniques for highly boosted W bosons that decay into hadrons”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.4227 [hep-ex]
10.1007/JHEP12(2014)017
JHEP **1412**, 017 (2014)
842. **“Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels”**
S. Chatrchyan *et al.* [CMS Collaboration].
arXiv:1410.4825 [nucl-ex]
843. **“Search for a standard model-like Higgs boson in the $\mu^+\mu^-$ and e^+e^- decay channels at the LHC”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.6679 [hep-ex]
844. **“Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.6765 [hep-ex]
845. **“Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1410.8812 [hep-ex]
846. **“Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.2646 [hep-ex]

847. **“Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.3441 [hep-ex]
848. **“Observation of the rare $B_s^0 \rightarrow \mu^+ \mu^-$ decay from the combined analysis of CMS and LHCb data”**
V. Khachatryan *et al.* [CMS and LHCb Collaborations].
arXiv:1411.4413 [hep-ex]
849. **“Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.6977 [hep-ex]
850. **“Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1411.7255 [hep-ex]
851. **“Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.1115 [hep-ex]
852. **“Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.1633 [hep-ex]
853. **“Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.4109 [hep-ex]
854. **“Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.6302 [hep-ex]
855. **“Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV”**
V. Khachatryan *et al.* [CMS Collaboration].
arXiv:1412.7706 [hep-ex]

856. **“Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV”**

V. Khachatryan *et al.* [CMS Collaboration].

arXiv:1412.8662 [hep-ex]