

## Papers by Andrew C. Haas

1. **“Search for Randall-Sundrum gravitons with 1 fb<sup>-1</sup> of data from ppbar collisions at sqrt(s)=1.96 TeV”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:0710.3338 [hep-ex]  
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2. **“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]  
FERMILAB-PUB-07-488-E(2007) (Submitted to Phys.Rev.D)
3. **“Measurement of the muon charge asymmetry from  $W$  boson decays”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:0709.4254 [hep-ex]  
FERMILAB-PUB-07-493-E(2007) (Submitted to Phys.Rev.D)
4. **“Search for flavor-changing-neutral-current  $D$  meson decays”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:0708.2094 [hep-ex]  
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5. **“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]  
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6. **“Search for  $B_s \rightarrow \mu^+ \mu^-$  at D0”**  
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7. **“Measurement of the  $t\bar{t}$  production cross-section in  $p\bar{p}$  collisions using dilepton events”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **76**, 052006 (2007) [arXiv:0706.0458 [hep-ex]]
8. **“Direct observation of the strange  $b$  baryon  $X i_b^-$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **99**, 052001 (2007) [arXiv:0706.1690 [hep-ex]]
9. **“Measurement of the  $\Lambda_b^0$  lifetime using semileptonic decays”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:0706.2358 [hep-ex]  
FERMILAB-PUB-07-205-E(2007) (Submitted to Phys.Rev.Lett.)
10. **“Search for stopped gluinos from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$ -TeV”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **99**, 131801 (2007) [arXiv:0705.0306 [hep-ex]]

11. **“ $Z\gamma$  production and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$ - TeV”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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12. **“Search for a Higgs boson produced in association with a  $Z$  boson in  $p\bar{p}$  collisions”**  
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arXiv:0704.2000 [hep-ex]  
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13. **“Measurement of the  $\Lambda_b$  lifetime in the exclusive decay  $\Lambda_b \rightarrow J/\psi\Lambda$ ”**  
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Phys. Rev. D **75**, 092001 (2007) [arXiv:hep-ex/0702018]
16. **“Measurement of the shape of the boson rapidity distribution for  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$  events produced at  $\sqrt{s}$  of 1.96-TeV”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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V. M. Abazov *et al.* [D0 Collaboration]  
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19. **“Measurement of the charge asymmetry in semileptonic  $B_s$  decays”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **98**, 151801 (2007) [arXiv:hep-ex/0701007]
20. **“Lifetime difference and CP-violating phase in the  $B_s^0$  system”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **98**, 121801 (2007) [arXiv:hep-ex/0701012]
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V. M. Abazov *et al.* [D0 Collaboration]  
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V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **98**, 221801 (2007) [arXiv:hep-ex/0612013]
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V. M. Abazov *et al.* [D0 Collaboration]

arXiv:hep-ex/0612040

FERMILAB-PUB-06-426-E(2006) (Submitted to Phys.Rev.D)

24. **“Evidence for production of single top quarks and first direct measurement of  $-\mathcal{V}(tb)$ —”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **98**, 181802 (2007) [arXiv:hep-ex/0612052]
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Phys. Rev. D **74**, 112004 (2006) [arXiv:hep-ex/0611002]
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Phys. Lett. B **645**, 119 (2007) [arXiv:hep-ex/0611003]
27. **“Measurement of the CP-violation parameter of  $B_0$  mixing and decay with  $p$  anti- $p \rightarrow \mu \mu X$  data”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **74**, 092001 (2006) [arXiv:hep-ex/0609014]
28. **“Measurement of  $B_d$  mixing using opposite-side flavor tagging”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **74**, 112002 (2006) [arXiv:hep-ex/0609034]
29. **“Measurement of the  $W$  boson helicity in top quark decay at D0”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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30. **“Measurement of the top quark mass in the lepton + jets final state with the matrix element method”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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31. **“Measurement of the top quark mass in the dilepton channel”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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32. **“Limits on anomalous trilinear gauge couplings from  $W W \rightarrow e^+ e^-$ ,  $W W \rightarrow e^+ \mu^-$ , and  $W W \rightarrow \mu^+ \mu^-$  events from  $p$  anti- $p$  collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
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33. **“Search for pair production of scalar bottom quarks in  $p$  anti- $p$  collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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Phys. Rev. Lett. **98**, 041801 (2007) [arXiv:hep-ex/0608044]
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V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:hep-ex/0608052  
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36. **“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]  
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37. **“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]  
Phys. Rev. Lett. **97**, 161803 (2006) [arXiv:hep-ex/0607022]
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V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **97**, 161802 (2006) [arXiv:hep-ex/0607028]
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V. M. Abazov *et al.* [D0 Collaboration]  
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40. **“Search for  $W'$  boson production in the top quark decay channel”**  
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V. M. Abazov *et al.* [D0 Collaboration]  
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V. M. Abazov *et al.* [D0 Collaboration]  
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V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **641**, 415 (2006) [arXiv:hep-ex/0605064]
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50. **“A Precise measurement of the  $B_s^0$  lifetime”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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V. M. Abazov *et al.* [D0 Collaboration]  
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52. **“First direct two-sided bound on the  $B_s^0$  oscillation frequency”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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54. **“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]  
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55. **“Search for the Higgs boson in  $H \rightarrow W W^{(*)}$  decays in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **96**, 011801 (2006) [arXiv:hep-ex/0508054]
56. **“Measurement of semileptonic branching fractions of B mesons to narrow  $D^{**}$  states”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 171803 (2005) [arXiv:hep-ex/0507046]
57. **“Measurement of the lifetime difference in the B/ $s_0$  system”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 171801 (2005) [arXiv:hep-ex/0507084]
58. **“The upgraded D0 detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Nucl. Instrum. Meth. A **565**, 463 (2006) [arXiv:physics/0507191]
59. **“Search for large extra spatial dimensions in dimuon production at D0”**  
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Phys. Rev. Lett. **95**, 161602 (2005) [arXiv:hep-ex/0506063]
60. **“Search for Randall-Sundrum gravitons in dilepton and diphoton final states”**  
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Phys. Rev. Lett. **95**, 091801 (2005) [arXiv:hep-ex/0505018]
61. **“Measurement of the W boson helicity in top quark decays”**  
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62. **“Search for single top quark production in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **622**, 265 (2005) [arXiv:hep-ex/0505063]
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64. **“Search for neutral supersymmetric Higgs bosons in multijet events at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 151801 (2005) [arXiv:hep-ex/0504018]

65. **“Production of W Z events in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$  and limits on anomalous W W Z couplings”**  
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72. **“First measurement of  $\sigma(p \text{ anti-p } -i Z) \times \text{Br}(Z -i \text{ tau tau})$  at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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73. **“Search for first-generation scalar leptoquarks in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **71**, 071104 (2005) [arXiv:hep-ex/0412029]
74. **“A search for anomalous heavy-flavor quark production in association with W bosons”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 152002 (2005) [arXiv:hep-ex/0411084]
75. **“A search for the flavor-changing neutral current decay  $B_s^0 \rightarrow \mu^+ \mu^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96 \text{ TeV}$  with the DØ detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 071802 (2005) [arXiv:hep-ex/0410039]
76. **“Measurement of the ratio of  $B^+$  and  $B^0$  meson lifetimes”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 182001 (2005) [arXiv:hep-ex/0410052]
77. **“Measurement of the  $\Lambda_b^0$  lifetime in the decay  $\Lambda_b^0 \rightarrow J/\psi \Lambda^0$  with the DØ detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 102001 (2005) [arXiv:hep-ex/0410054]

78. **“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]  
Phys. Rev. Lett. **94**, 091802 (2005) [arXiv:hep-ex/0410062]
79. **“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]  
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80. **“A measurement of the ratio of inclusive cross sections  $\sigma(pp \rightarrow Z + b - \text{jet})/\sigma(pp \rightarrow Z + \text{jet})$  at  $\sqrt{s} = 1.96$  TeV”**  
V. M. Abazov *et al.* [D0 Collaboration]  
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81. **“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]  
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82. **“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]  
Phys. Rev. Lett. **94**, 042001 (2005) [arXiv:hep-ex/0409043]
83. **“Search for supersymmetry with gauge-mediated breaking in diphoton events at DØ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 041801 (2005) [arXiv:hep-ex/0408146]
84. **“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]  
Phys. Rev. Lett. **93**, 162002 (2004) [arXiv:hep-ex/0405004]
85. **“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]  
Phys. Rev. Lett. **93**, 141801 (2004) [arXiv:hep-ex/0404015]
86. **“The DZERO level 3 data acquisition system”**  
R. D. Angstadt *et al.*  
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87. **“The DZERO level 3 data acquisition system”**  
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88. **“DØ online monitoring and automatic DAQ recovery”**  
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89. **“Simultaneous tracking and vertexing with elastic templates”**  
A. Haas  
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