

## Papers by Andrew C. Haas

1. **“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  $\sqrt{s} = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **74**, 057101 (2006) [arXiv:hep-ex/0608011]
2. **“Search for scalar leptoquarks in the acoplanar jet topology in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **640**, 230 (2006) [arXiv:hep-ex/0607009]
3. **“Search for a heavy resonance decaying into a Z + jet final state in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$  using the D0 detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **74**, 011104 (2006) [arXiv:hep-ex/0606018]
4. **“Search for resonant second generation slepton production at the Tevatron”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **97**, 111801 (2006) [arXiv:hep-ex/0605010]
5. **“Search for neutral Higgs bosons decaying to tau pairs in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **97**, 121802 (2006) [arXiv:hep-ex/0605009]
6. **“Search for R-parity violating supersymmetry via the LLE couplings  $\lambda(121)$ ,  $\lambda(122)$  or  $\lambda(133)$  in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **638**, 441 (2006) [arXiv:hep-ex/0605005]
7. **“A precise measurement of the B/s0 lifetime”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:hep-ex/0604046 (Submitted to Phys.Rev.Lett.)
8. **“Search for excited muons in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **73**, 111102 (2006) [arXiv:hep-ex/0604040]
9. **“Search for squarks and gluinos in events with jets and missing transverse energy in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **638**, 119 (2006) [arXiv:hep-ex/0604029]
10. **“Multivariate searches for single top quark production with the D0 detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
arXiv:hep-ex/0604020 (Submitted to Phys.Rev.D)
11. **“Search for the rare decay  $B^0/s \rightarrow \bar{c} \Phi \mu^+ \mu^-$  with the D0 detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **74**, 031107 (2006) [arXiv:hep-ex/0604015]
12. **“First direct two-sided bound on the B/s0 oscillation frequency”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **97**, 021802 (2006) [arXiv:hep-ex/0603029]

13. **“Measurement of  $B(t \rightarrow \bar{l} W b)/B(t \rightarrow \bar{l} W q)$  at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **639**, 616 (2006) [arXiv:hep-ex/0603002]
14. **“Search for pair production of second generation scalar leptoquarks in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **636**, 183 (2006) [arXiv:hep-ex/0601047]
15. **“Measurement of the isolated photon cross section in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **639**, 151 (2006) [arXiv:hep-ex/0511054]
16. **“Search for the Higgs boson in  $H \rightarrow \bar{l} W W^{(*)}$  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]
17. **“The upgraded D0 detector”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Nucl. Instrum. Meth. A **565**, 463 (2006) [arXiv:physics/0507191]
18. **“Measurement of the lifetime difference in the B/s0 system”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 171801 (2005) [arXiv:hep-ex/0507084]
19. **“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]
20. **“Search for large extra spatial dimensions in dimuon production at D0”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 161602 (2005) [arXiv:hep-ex/0506063]
21. **“Measurement of the t anti-t production cross section in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$  in dilepton final states”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **626**, 55 (2005) [arXiv:hep-ex/0505082]
22. **“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]
23. **“Measurement of the W boson helicity in top quark decays”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **72**, 011104 (2005) [arXiv:hep-ex/0505031]
24. **“Search for Randall-Sundrum gravitons in dilepton and diphoton final states”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 091801 (2005) [arXiv:hep-ex/0505018]
25. **“Measurement of the t anti-t production cross section in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$  using lepton + jets events with lifetime b-tagging”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **626**, 35 (2005) [arXiv:hep-ex/0504058]
26. **“Measurement of the t anti-t production cross section in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$  using kinematic characteristics of lepton + jets events”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Lett. B **626**, 45 (2005) [arXiv:hep-ex/0504043]

27. **“Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 151805 (2005) [arXiv:hep-ex/0504032]
28. **“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”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 141802 (2005) [arXiv:hep-ex/0504019]
29. **“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]
30. **“Measurement of the p anti-p  $\rightarrow$  Z W gamma + X cross section at  $s^{**}(1/2) = 1.96\text{-TeV}$  and W W gamma anomalous coupling limits”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **71**, 091108 (2005) [arXiv:hep-ex/0503048]
31. **“Study of Z gamma events and limits on anomalous Z Z gamma and Z gamma gamma couplings in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **95**, 051802 (2005) [arXiv:hep-ex/0502036]
32. **“Measurement of inclusive differential cross sections for Upsilon(1S) production in p anti-p collisions at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 232001 (2005) [arXiv:hep-ex/0502030]
33. **“The DZERO level 3 data acquisition system”**  
R. D. Angstadt *et al.*  
IEEE Trans. Nucl. Sci. **51**, 445 (2004)
34. **“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]
35. **“First measurement of  $\sigma(\text{p anti-p} \rightarrow \text{Z}) \times \text{Br}(\text{Z} \rightarrow \tau \tau)$  at  $s^{**}(1/2) = 1.96\text{-TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. D **71**, 072004 (2005) [arXiv:hep-ex/0412020]
36. **“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]
37. **“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]  
Phys. Rev. Lett. **94**, 161801 (2005) [arXiv:hep-ex/0410078]
38. **“Measurement of the WW production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96\text{ TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 151801 (2005) [arXiv:hep-ex/0410066]
39. **“A search for  $Wb\bar{b}$  and WH production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96\text{ TeV}$ ”**  
V. M. Abazov *et al.* [D0 Collaboration]  
Phys. Rev. Lett. **94**, 091802 (2005) [arXiv:hep-ex/0410062]
40. **“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]

41. **“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]
42. **“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]  
Phys. Rev. Lett. **94**, 071802 (2005) [arXiv:hep-ex/0410039]
43. **“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]
44. **“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]  
Phys. Rev. Lett. **94**, 221801 (2005) [arXiv:hep-ex/0409040]
45. **“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]
46. **“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]
47. **“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]
48. **“A search for neutral Higgs bosons at high  $\tan\beta$  in multi-jet events from p anti-p collisions at  $s^{**}(1/2) = 1960$ -GeV”**  
A. C. Haas  
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49. **“The DZERO level 3 data acquisition system”**  
D. Chapin *et al.*  
eConf **C0303241**, TUGP010 (2003) [eConf **C0303241**, MOGT002 (2003)] [arXiv:physics/0307070]
50. **“D0 online monitoring and automatic DAQ recovery”**  
A. Haas *et al.*  
eConf **C0303241**, TUGP011 (2003) [eConf **C0303241**, THGT004 (2003)] [arXiv:physics/0306195]
51. **“Simultaneous tracking and vertexing with elastic templates”**  
A. Haas  
Prepared for 7th International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT 2000), Batavia, Illinois, 16-20 Oct 2000