

List of Publications

Publications I have contributed to directly:

DØ Run II Publications:

Search for production of single top quarks via flavor-changing neutral currents at the Tevatron, (V Abazov et al.), submitted to Phys. Rev. Lett., Fermilab-Pub-07-031-E, hep-ex/0702005 (2007).

Evidence for production of single top quarks and first direct measurement of $|V_{tb}|$, (V Abazov et al.), Phys. Rev. Lett. 98: 181802, Fermilab-Pub-06-475-E, hep-ex/0612052 (2007).

Search for W' boson production in the top quark decay channel, DØ collaboration (V Abazov et al.), Phys. Lett. B 641: 423-431 (2006), Fermilab-Pub-06-069-E, hep-ex/0604020 (2006).

Multivariate searches for single top quark production in $p\bar{p}$ collisions at $\sqrt{s}=1.96\text{TeV}$, DØ collaboration (V Abazov et al.), Phys. Rev. D 75: 092007, Fermilab-Pub-06-069-E, hep-ex/0604020 (2007).

Search for single top quark production in $p\bar{p}$ collisions at $\sqrt{s}=1.96\text{TeV}$, DØ collaboration (V Abazov et al.), Phys. Lett. B 622, 265, Fermilab-Pub-05-207-E, hep-ex/0505063 (2005).

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, DØ collaboration (V Abazov et al.), Phys. Lett. B626, 45, Fermilab-Pub-05-079-E, hep-ex/0504043 (2005).

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, DØ collaboration (V Abazov et al.), Phys. Lett. B 626, 35, Fermilab-Pub-05-087-E, hep-ex/0504058 (2005).

Measurement of the W helicity in top quark decays, DØ collaboration (V Abazov et al.), Phys. Rev. D 72, 011104, Fermilab-Pub-05-187-E, hep-ex/0505031 (2005).

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, DØ collaboration (V Abazov et al.), Phys. Lett. B 626, 55, Fermilab-Pub-05-217-E, hep-ex/0505082 (2005).

The Upgraded DØ Detector, DØ collaboration (V Abazov et al.), Nucl. Instrum. Meth. A 565:463-537, hep-ex/0507191, Fermilab-Pub-05-341-E (2006).

Particle Physics Phenomenology:

Next-to-Leading Order Corrections to Single Top Quark Production and Decay at Tevatron: 1. s-channel Process, Q.-H. Cao, R. Schwienhorst, C.-P. Yuan, Phys. Rev. D74, 054023, hep-ph/0409040 (2005).

Next-to-Leading Order Corrections to Single Top Quark Production and Decay at Tevatron: 2. t-channel Process, Q.-H. Cao, R. Schwienhorst, J. Benitez, R. Brock, C.-P. Yuan, Phys. Rev. D 72: 094027, hep-ph/0504230 (2005).

DØ Run II Conference Proceedings:

The DØ Run II Trigger System, DØ collaboration (R. Schwienhorst, for the collaboration), Int. J. Mod. Phys. A20: 3796-3798, proceedings for the Meeting of the Division of Particles and Fields of the American Physical Society, physics/0411135 (2004).

Search for Single Top Production at the Tevatron, DØ and CDF collaborations (R. Schwienhorst, for the collaborations), proceedings for the 5th Rencontres du Vietnam, DØ note 4631, FERMILAB-CONF-04-331-E, hep-ex/0411039 (2004).

Top Quark Production Cross Section at $ECM=1.96\text{TeV}$, DØ and CDF collaborations (R. Schwienhorst, for the collaborations), proceedings for the 5th Rencontres du Vietnam, DØ note 4632, FERMILAB-CONF-04-332-E, hep-ex/0411041 (2004).

Update of the Measurement of the t anti- t cross section at $S^{(1/2)}=1.96\text{ TeV}$* , DØ collaboration (V Abazov *et al.*), Fermilab-Conf-03-248-E, (2003).

Measurement of the t anti- t cross section at square-root $s=1.96\text{ TeV}$, DØ collaboration (V Abazov *et al.*), Fermilab-Conf-03-200-E (2003).

DONUT:

Identification of neutrino interactions using the DONUT spectrometer, K. Kodama *et al.* (DONUT Collaboration), Nucl. Instrum. Meth. A **516**: 21-33 (2004).

Detection and Analysis of Tau Neutrino Interactions in Donut Emulsion Target, K. Kodama *et al.* (DONUT Collaboration), Nucl. Instrum. Meth. A **493**: 45-66 (2002).

A New Upper Limit for the Tau-Neutrino Magnetic Moment, R. Schwienhorst *et al.* (DONUT Collaboration), Phys. Lett. B **513**: 23-29 (2001).

Observation of tau neutrino interactions, K. Kodama *et al.* (DONUT Collaboration), Phys. Lett. B **504**: 218-224 (2001).

A New Upper Limit for the Tau-Neutrino Magnetic Moment, R. Schwienhorst, Ph.D. thesis, University of Minnesota, FERMILAB-THESIS-2000-14 (2000).

MINOS:

Observation of muon neutrino disappearance with the MINOS detectors and the NuMI neutrino beam, MINOS collaboration, Phys. Rev. Lett.97: 191801 (2006).

First Observations of Separated Atmospheric Muon Neutrino and Muon Anti-Neutrino Events in the MINOS Detector, MINOS collaboration, Phys. Rev. D73: 072002 (2006).

A large liquid scintillator detector for a long baseline neutrino oscillation experiment, P. Border, P. Cushman, K. Heller, D. Maxam, J.K. Nelson, K. Ruddick, R. Rusack, R. Schwienhorst, T. Berg, T. Chase, M. Hansen, C. Bower, R. Hatcher, R. Heinz, L. Miller, S. Mufson (Minnesota U. & Indiana U.), Nucl. Instrum. Meth. A **463**: 194-204 (2001).

A comprehensive characterization of Hamamatsu 16- and 64-anode PMTs, K. Lang *et al.*, Nucl. Instrum. Meth. A**461**: 571-573 (2001).

Multipixel Photodetectors, R. Schwienhorst *et al.*, Numi-L-370 (1998).

Results from an Iron Proportional Tube Calorimeter Prototype, P. Schoessow, I. Ambats, D.S. Ayres, J.W. Dawson, W.N. Haberichter, N. Hill, R.L. Talaga, J.L. Thron (Argonne), Yu. Gornushkin, A. Sadovsky (Dubna, JINR), J.L. Miller (Indiana U.), R. Schwienhorst (Minnesota U.), H. Gallagher (Oxford U.), C. Arroyo (SLAC), W.A. Mann (Tufts U.), W.L. Barrett (Western Washington U.), Talk given at 7th International Conference on Calorimetry in High-Energy Physics (ICCHEP 97), Tucson, AZ, 9-14 Nov 1997. In *Tucson 1997, Calorimetry in high energy physics* 319-326, SLAC-REPRINT-1997-070, ANL-HEP-CP-98-02, NUMI-L-335 (1997).

Theoretical Atomic Physics:

Electron-photon coincidences in electron impact ionization-excitation, R Schwienhorst *et al.*, J. Phys. B: At. Mol. Opt. Phys. **29** 2305-2314 (1996).

R-matrix calculations for double-differential cross-sections in electron-impact ionization of helium, R. Schwienhorst, A. Raeker, RHG Reid, and K. Bartschat, J. Phys. B: At. Mol. Opt. Phys. **28** 4651-4658 (1995).

Review Articles:

Tevatron-for-LHC Report: Top and Electroweak Physics, TeV4LHC-Top and Electroweak Working Group (C.E. Gerber *et al.*). FERMILAB-CONF-07-052-E-T, arXiv:0705.3251 [hep-ph] (2007).

Search for single top quark production at $D\bar{O}$, R. Schwienhorst, Mod. Phys. Lett. A 21, pp. 1339-1353 (2006).

All $D\bar{O}$ Run II Publications:

1. *Search for Doubly-charged Higgs Boson Pair Production in the Decay to $\mu^+\mu^+\mu^-\mu^-$ in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. 93, 141801 (2004). [PDF](#) (Copyright by the APS)
FERMILAB-Pub-04/045-E, hep-ex/0404015 [PS](#) *Observation and Properties of the $X(3872)$ Decaying to $J/\psi \pi^+\pi^-$ in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. 93, 162002 (2004). [PDF](#) (Copyright by the APS)
hep-ex/0405004, Fermilab-Pub-04/061-E. [PS](#)
2. *Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at DZero*
Phys. Rev. Lett. {94}, 041801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0408146; Fermilab-Pub-04/198-E. [PS](#)
3. *Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. {94}, 221801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0409040; Fermilab-Pub-04/217-E. [PS](#)
4. *Measurement of the B_s^0 Lifetime in the Exclusive Decay Channel $B_s^0 \rightarrow J/\psi \phi$*
Phys. Rev. Lett. {94}, 042001 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0409043; Fermilab-Pub-04/225-E. [PS](#)
5. *A Search for the Flavor-Changing Neutral Current Decay $B_s^0 \rightarrow \mu^+ \mu^-$ in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. {94}, 071802 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410039; Fermilab-Pub-04/215-E. [PS](#)
6. *Measurement of the Ratio of B^+ and B^0 Meson Lifetimes*
Phys. Rev. Lett. 94, 182001 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410052; Fermilab-Pub-04/284-E. [PS](#)
7. *Measurement of the Λ_B Lifetime in the Decay $\Lambda_B \rightarrow J/\psi \Lambda$ With the D0 Detector*
Phys. Rev. Lett. {94}, 102001 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410054; Fermilab-Pub-04/286-E. [PS](#)
8. *A Search for Wbb and WH Production in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. {94}, 091802 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410062; Fermilab-Pub-04/288-E. [PS](#)
9. *Measurement of the WW Production Cross Section in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. {94}, 151801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410066; Fermilab-Pub-04/293-E. [PS](#)
10. *A Measurement of the Ratio of Inclusive Cross Sections $p\bar{p} \rightarrow Zb/p\bar{p} \rightarrow Zj$ at $\sqrt{s}=1.96$ TeV*
Phys. Rev. Lett. {94}, 161801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0410078; Fermilab-Pub-04/297-E. [PS](#)
11. *A search for anomalous heavy-flavor quark production in association with W bosons*
Phys. Rev. Lett. {94}, 152002 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0411084; Fermilab-Pub-04/359-E. [PS](#)
12. *First measurement of $\sigma(pp\bar{p} \rightarrow Z) \times Br(Z \rightarrow \tau\tau)$ at $\sqrt{s}=1.96$ TeV*
Phys. Rev. D {71}, 072004 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0412020; Fermilab-Pub-04/381-E. [PS](#)
13. *Search for first-generation scalar leptoquarks in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV*
Phys. Rev. D Rapid Comm. {71}, 071104(R) (2005). [PDF](#) (Copyright by the APS)

- hep-ex/0412029; Fermilab-Pub-04/389-E. [PS](#)
14. *Study of Zgamma events and limits on anomalous ZZgamma and Zgammagamma couplings in pbarp collisions at sqrt(s)=1.96 TeV*
Phys. Rev. Lett. {95}, 051802 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0502036; Fermilab-Pub-05/023-E. [PS](#)
15. *Measurement of inclusive differential cross sections for Upsilon(1S) production in ppbar collisions at sqrt(s)=1.96 TeV*
Phys. Rev. Lett. {94}, 232001 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0502030; Fermilab-Pub-05/020-E. [PS](#)
16. *Measurement of the p-barp -> Wgamma + X Cross section and Limits on Anomalous WWgamma Couplings at sqrt(s)=1.96 TeV*
Phys. Rev. D Rapid. Comm. {71}, 091108 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0503048; Fermilab-Pub-05/046-E. [PS](#)
17. *Production of WZ Events in p-barp Collisions at sqrt(s)=1.96 TeV and Limits on Anomalous WWZ Couplings*
Phys. Rev. Lett. {95}, 141802 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0504019; Fermilab-Pub-05/061-E. [PS](#)
18. *Search for neutral supersymmetric Higgs bosons in multijet events at sqrt(s)=1.96 TeV*
Phys. Rev. Lett. {95}, 151801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0504018; Fermilab-Pub-05/058-E. [PS](#)
19. *Measurement of the tbar cross section in pbarp collisions at sqrt(s)=1.96 TeV using kinematic characteristics of lepton plus jets events*
Phys. Lett. B {626}, 45 (2005).
hep-ex/0504043; Fermilab-Pub-05/079-E. [PS](#)
20. *Measurement of the tbar cross section in pbarp collisions at sqrt(s)=1.96 TeV using lepton plus jets events with lifetime b-tagging*
Phys. Lett. B {626}, 35 (2005).
hep-ex/0504058; Fermilab-Pub-05/087-E. [PS](#)
21. *Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons*
Phys. Rev. Lett. {95}, 151805 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0504032; Fermilab-Pub-05/075-E. [PS](#)
22. *Search for Randall-Sundrum Gravitons in Dilepton and Diphoton Final States*
Phys. Rev. Lett. {95}, 091801 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0505018; Fermilab-Pub-05/126-E. [PS](#)
23. *Search for right-handed W bosons in top quark decay*
Phys. Rev. D Rap. Comm. {72}, 011104(R) (2005). [PDF](#) (Copyright by the APS)
hep-ex/0505031; Fermilab-Pub-05/187-E. [PS](#)
24. *Search for single top quark production in pbarp collisions at sqrt(s)=1.96 TeV*
Phys. Lett. B {622}, 265-276 (2005).
hep-ex/0505063; Fermilab-Pub-05/207-E. [PS](#)
25. *Measurement of the tbar production cross section in pbarp collisions at sqrt(s)=1.96 TeV in dilepton final states*
Phys. Lett. B {626}, 55 (2005).
hep-ex/0505082; Fermilab-Pub-05/217-E. [PS](#)
26. *Search for large extra spatial dimensions in dimuon production at DZero*
Phys. Rev. Lett. {95}, 161602 (2005). [PDF](#) (Copyright by the APS)
hep-ex/0506063; Fermilab-Pub-05/250-E. [PS](#)

27. *Measurement of semileptonic branching fractions of B mesons to narrow D** states*
 Phys. Rev. Lett. {95}, 171803 (2005). [PDF](#) (Copyright by the APS)
 hep-ex/0507046; Fermilab-Pub-05/313-E. [PS](#)
28. *Measurement of the lifetime difference in the Bs system*
 Phys. Rev. Lett. {95}, 171801 (2005). [PDF](#) (Copyright by the APS)
 hep-ex/0507084; Fermilab-Pub-05/324-E. [PS](#)
29. *The Upgraded D0 Detector*
 Nucl. Instr. and Methods A {565}, 463 (2006). [PDF](#) physics/0507191; Fermilab-Pub-05/341-E. [PS](#)
30. *Search for the Higgs Boson in H->WW(*) Decays in pbarp Collisions at sqrt(s) = 1.96 TeV*
 Phys. Rev. Lett. {96}, 011801 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0508054; Fermilab-Pub-05/377-E. [PS](#)
31. *Measurements of the isolated photon cross section in pbarp Collisions at sqrt(s) = 1.96 TeV*
 Phys. Lett. B {639}, 151 (2006).
 hep-ex/0511054; Fermilab-Pub-05/523-E. [PS](#)
32. *Search for Pair Production of Second Generation Scalar Leptoquarks in pbarp Collisions at sqrt(s) = 1.96 TeV*
 Phys. Lett. B {636}, 183 (2006).
 hep-ex/0601047; Fermilab-Pub-06/017-E. [PS](#)
33. *Direct Limits on the Bs0 Oscillation Frequency*
 Phys. Rev. Lett. {97}, 021802 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0603029; Fermilab-Pub-06/055-E. [PS](#)
34. *Measurement of B(t->bW)/B(t->qW) at sqrt(s) = 1.96 TeV*
 Phys. Lett. B {639}, 616 (2006).
 hep-ex/0603002; Fermilab-Pub-06/037-E. [PS](#)
35. *Search for the Rare Decay B0_s -> phi mu^+ mu- with the D0 Detector*
 Phys. Rev. D RC {74}, 031107 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0604015; Fermilab-Pub-06/073-E. [PS](#)
36. *Search for Squarks and Gluinos in Events with Jets and Missing Transverse Energy in pbarp Collisions at sqrt(s)=1.96 TeV*
 Phys. Lett. B {638}, 119 (2006).
 hep-ex/0604029; Fermilab-Pub-06/077-E. [PS](#)
37. *Search for Excited Muons in pbarp Collisions at sqrt(s)=1.96 TeV*
 Phys. Rev. D Rap. Comm. 73, 111102 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0604040; Fermilab-Pub-06/081-E. [PS](#)
38. *Search for Particles Decaying to a Z Boson and a Photon in pbarp Collisions at sqrt(s)=1.96 TeV*
 Phys. Lett. B {641}, 415 (2006).
 hep-ex/0605064; Fermilab-Pub-06/109-E. [PS](#)
39. *Search for R-parity Violating Supersymmetry via the LLE Couplings Lambda_121, Lambda_122, or Lambda_133 in pbarp Collisions at sqrt(s)=1.96 TeV*
 Phys. Lett. B {638}, 441 (2006).
 hep-ex/0605005; Fermilab-Pub-06/089-E. [PS](#)
40. *Search for Neutral Higgs Bosons Decaying to Tau Pairs in pbarp Collisions at sqrt(s)=1.96 TeV*
 Phys. Rev. Lett. {97}, 121802 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0605009; Fermilab-Pub-06/092-E. [PS](#)

41. *Measurement of the B_s Lifetime Using SemiLeptonic Decays*
 Phys. Rev. Lett. {97}, 241801 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0604046; Fermilab-Pub-06/085-E. [PS](#)
42. *Search for Resonant 2nd Generation Slepton Production at the Tevatron*
 Phys. Rev. Lett. {97}, 111801 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0605010; Fermilab-Pub-06/094-E. [PS](#)
43. *Search for Heavy Resonance Decaying into a Z +jet Final State in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using the D0 Detector*
 Phys. Rev. D RC {74}, 100104 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0606018; Fermilab-Pub-06/167-E. [PS](#)
44. *Search for Neutral Long Lived Particles Decaying to Two Muons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*
 Phys. Rev. Lett. {97}, 161802 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0607028; Fermilab-Pub-06/245-E. [PS](#)
45. *Search for associated Higgs boson production $WH \rightarrow WWW^* \rightarrow l^+ \nu l'^- \nu + X$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*
 Phys. Rev. Lett. {97}, 151804 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0607032; Fermilab-Pub-06/246-E. [PS](#)
46. *Search for the W' Decay in the top quark channel*
 Phys. Lett. B {641}, 423 (2006).
 hep-ex/0607102; Fermilab-Pub-06/257-E. [PS](#)
47. *Search for Pair Production of Scalar Bottom Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV*
 Phys. Rev. Lett. {97}, 171806 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0608013; Fermilab-Pub-06/269-E. [PS](#)
48. *Limits on anomalous trilinear gauge couplings from $WW \rightarrow ee$, $WW \rightarrow e\mu$, and $WW \rightarrow \mu\mu$ events from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV*
 Phys. Rev. D Brief Rep. {74}, 057101 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0608011; Fermilab-Pub-06/268-E. [PS](#)
49. *Experimental discrimination between charge $2e/3$ top quark and charge $4e/3$ exotic quark production scenarios*
 Phys. Rev. Lett. {\bf 98}, 041801 (2007). [PDF](#) (Copyright by the APS)
 hep-ex/0608044; Fermilab-Pub-06/278-E. [PS](#)
50. *Search for the standard model higgs boson in the $p\bar{p} \rightarrow ZH \rightarrow \nu \bar{\nu} b \bar{b}$ channel*
 Phys. Rev. Lett. {97}, 161803 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0607022; Fermilab-Pub-06/238-E. [PS](#)
51. *Search for scalar leptoquarks in the acoplaner jet topology*
 Phys. Lett. B {640}, 230 (2006).
 hep-ex/0607009; Fermilab-Pub-06/233-E. [PS](#)
52. *Measurement of the CP-violating parameter of B^0 mixing and decay in the $p\bar{p} \rightarrow \mu \mu X$ data*
 Phys. Rev. D {74}, 092001 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0609014; Fermilab-Pub-06/327-E. [PS](#)
53. *Measurement of B_d Mixing Using Opposite-side Flavor Tagging*
 Phys. Rev. D {74}, 112002 (2006). [PDF](#) (Copyright by the APS)
 hep-ex/0609034; Fermilab-Pub-06/341-E. [PS](#)
54. *Measurement of the W Boson Helicity in Top Quark decay at D0*
 Phys. Rev. D Rapid. Comm. {75}, 031102(R) (2007). [PDF](#) (Copyright by the APS)
 hep-ex/0609045; Fermilab-Pub-06/345-E. [PS](#)

55. *Search for the Pair Production of Scalar Top Quarks in the Acoplaner Charm Jet Final State in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV*
Phys. Lett. B {645}, 119 (2007).
hep-ex/0611003; Fermilab-Pub-06/396-E. [PS](#)
56. *Measurement of the $t\bar{t}$ Cross Section in $p\bar{p}$ Collisions at $\sqrt{s}=1.96$ TeV using Secondary Vertex b -tagging*
Phys. Rev. D {74}, 112004 (2006). [PDF](#) (Copyright by the APS)
hep-ex/0611002; Fermilab-Pub-06/386-E. [PS](#)
57. *Measurement of the top quark mass in the lepton+jets final state with the matrix element method*
accepted by Phys. Rev. D, (2006).
hep-ex/0609053; Fermilab-Pub-06/353-E. [PS](#)
58. *Search for single production of scalar leptoquarks decaying into muons and quarks*
accepted by Phys. Lett. B, (2007).
hep-ex/0612012; Fermilab-Pub-06/455-E. [PS](#)

Conference Presentations

Invited Conference Presentations

Top quark pair production and single top quark production, talk at the CTEQ LHC workshop, Kalamazoo, MI (5/2007).

Single Top Production at the Tevatron, plenary talk at the APS meeting, Dallas, Texas (4/2006).

Single Top: From the Tevatron to the LHC, plenary talk at the TeV4LHC workshop, Batavia, Illinois (10/2005).

Search for Single Top Quark Production at $D\bar{0}$, presented at the Fermilab Users Meeting when I received the Tollestrup award, Batavia, IL (6/2005).

Top Physics Working Group Summary, plenary talk at the TeV4LHC workshop, Brookhaven, New York (3/2005).

Single Top Physics at the Tevatron, presented at the TeV4LHC workshop, Fermilab, Batavia, Illinois (9/2004).

Search for Single Top Production at the Tevatron, presented at the 5th Rencontres du Vietnam, Hanoi, Vietnam (8/2004).

Top Quark Production at $E_{CM}=1.96\text{TeV}$, presented at the 5th Rencontres du Vietnam, Hanoi, Vietnam (8/2004).

The $D\bar{0}$ Run II Trigger System, presented at the DPF meeting in Riverside, California (8/2004).

Top Quark Pair Production Cross Section at $D\bar{0}$ in the Lepton+Jets Channel, presented at the DPF meeting in Philadelphia, Pennsylvania (4/2003).

Other Conference Presentations

Search for new physics in single top quark production, presented at the APS meeting in Jacksonville, Florida, (4/2007).

Multivariate classifier comparison, presented at the BIRS conference on statistical inference problems in high energy physics and astrophysics in Banff, Canada, (7/2006).

Search for W' boson production in the top quark decay channel, presented at the Phenomenology Symposium 2006 in Madison, Wisconsin (5/2006).

Search for Single Top Quark Production at $D\bar{0}$ in Run II, presented at the Phenomenology Symposium 2005 in Madison, Wisconsin (5/2005).

Measurement of $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ at $D\bar{O}$, presented at the APS April meeting in Dallas, Texas (4/2006).

Single Top Interactions at $D\bar{O}$ in the Electron Channel, presented at the Phenomenology Symposium 2004 in Madison, Wisconsin (4/2004).

A New Upper Limit for the Tau-Neutrino Magnetic Moment, presented at the New Perspectives conference, Fermilab, Batavia, Illinois (6/2000).

A New Upper Limit for the Tau Neutrino Magnetic Moment, presented at the APS April Meeting in Long Beach, California (4/2000).

The MINOS experiment, presented at the New Perspectives conference, Fermilab, Batavia, Illinois (6/1997).

Seminar and Colloquium Presentations

$D\bar{O}$ Run II:

Seminar on *Advanced event analysis methods at the energy frontier:*
Centre de Physique des Particules de Marseille (CPPM) Marseille, France (7/2007).

Seminar on *Evidence for single top quark production with the $D\bar{O}$ experiment:*
Laboratoire de Physique Subatomique & Cosmologie (LPSC), Grenoble, France (7/2007),
Michigan State University, East Lansing, MI (1/2007).

Colloquium on *Top Quark Physics:*
University of Illinois at Chicago, Illinois (3/2006),
University of California, Santa Cruz (2/2006),
seminar for Michigan State University REU students, East Lansing, Michigan (6/2006).

Seminar on *Tevatron Single Top Quark Physics:*
University of Massachusetts, Amherst, Massachusetts (3/2006),
University of California, Berkeley, California (3/2006),
University of British Columbia, Vancouver, Canada (1/2006),
Michigan State University, East Lansing, Michigan (1/2006),
University of Chicago, Chicago, Illinois (1/2006).

Seminar on *Advanced Analysis methods in HEP:*
Brookhaven National Laboratory Particle Seminar, Upton, New York (12/2005),
Boston University, Boston, Massachusetts (12/2005).

Seminar on *Tevatron Single Top Physics:*
Harvard University, Boston, Massachusetts (12/2005),
University of Illinois at Chicago (11/2005),
University of Minnesota, Minneapolis, Minnesota (11/2005).

Colloquium on *Physics in the Third Generation: Testing the Standard Model at the Energy Frontier*:

University of Minnesota, Minneapolis, Minnesota (11/2005).

Seminar on *Single Top Quark Physics at $D\bar{O}$ in Run II*:

University of Wisconsin, Madison, Wisconsin (10/2005).

Colloquium on *Physics in the Third Generation: Testing the Standard Model at the Energy Frontier*:

Drake University, Des Moines, Iowa (1/2005),

Northern Illinois University, De Kalb, Illinois (5/2005).

Seminar on *Search for Single Top Quark Production at $D\bar{O}$ in Run II*:

Florida State University, Tallahassee, Florida (5/2005),

Columbia University, New York, New York (4/2005).

Search for Single Top Quark Production at $D\bar{O}$ in Run II:

Fermilab Wine & Cheese Seminar, Batavia, Illinois (4/2005).

Seminar on *Search for Single Top Quark Production at $D\bar{O}$ in Run II*:

Simon Fraser University, Burnaby, B.C., Canada (11/2004),

University of Washington, Seattle, Washington (11/2004),

University of Illinois at Chicago (11/2004),

University of Illinois in Urbana-Champaign (11/2004).

Seminar on *Single Top Physics at $D\bar{O}$* :

Michigan State University, East Lansing, Michigan (4/2004).

Seminar on *Observation of Tau Neutrino Interactions*:

Michigan State University, East Lansing, Michigan (7/2000).

Seminar on *Statistical Analysis of Systematic Errors and small Signals*:

University of Minnesota (10/1999).

Seminar on *The DONUT experiment*:

DOE review talk at the University of Minnesota (7/1999).

Seminar on *Search for the Tau Neutrino Magnetic Moment*:

Nagoya University, Nagoya, Japan (6/1999).

Seminar on *Search for Neutrino Oscillations – MINOS*:

University of Minnesota, Minneapolis, Minnesota (4/1998).