**Joshua M. Dyer**

Contact Information:

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**Education**

**Doctor of Philosophy, Physics,** August 2007

Michigan State University, East Lansing, MI

Dissertation: Measurement of the Diphoton Cross-Section at sqrt (s) = 1.96 TeV.

Advisor: Bernard Pope

**Master of Science, Physics,** December 2001

Michigan State University, East Lansing, MI

**Bachelor of Science, Engineering Physics**, May 2000

University of Illinois at Urbana-Champaign, Urbana, IL

**Bachelor of Science, Mechanical Engineering,** May 2000

University of Illinois at Urbana-Champaign, Urbana, IL

**Professional Experience**

August 2010- **Assistant Professor of Engineering Physics, Augustana College**

Present Physics Department

April 2012 – **Engineering Consultant, Strieter Corporation, Rock Island, IL**

Present Patent Design for Duo-Spirolator

August 2007- **Assistant Professor of Physics, Clayton State University**

May 2010 Natural Sciences Department

May 2001 – **Research Assistant, Michigan State University**

August 2007D0 Experiment at Fermi National Accelerator Laboratory

September 2005– **Physics Tutor, Charles Drew Enrichment Laboratory**

May 2007 Provides academic assistance and support for high achieving undergraduate students from diverse backgrounds that have historically produced few scientists and mathematicians.

August 2000 – **Teaching Assistant, Michigan State University**

May 2001 Physics Department

August 1996 – **Undergraduate Research Assistant, University of Illinois**

April 1999 Mechanical Engineering Department with Dr. Anthony Jacobi

January 1998 – **Teaching Assistant, University of Illinois**

May 2000 Physics Department

**Activities and Service Work**

* Greek/Faculty Liaison Committee (Augustana College) – Serving a two-year term (2012-14). Responsible for further developing the relationship between the Greek System and the faculty, students, administration and staff of the college.
* Athletic Advisory Committee (Augustana College) – Serving a two-year term (2011-13). Responsible for reviewing budgets and policies relating to intercollegiate athletic and extramural athletics.
* Augustana Summer Academy (Augustana College) – Co-created a new summer 2012 enrichment course for high school students to participate in experiential learning using a scanning electron microscope and x-ray diffractometer. Students also learned about radioactive materials, radioactive decay processes, and performed experiments with radioactive substances.
* Undergraduate Policy Council (Clayton State University) – Served a two-year term, one year as chair, on this council which focuses on non-academic issues related to student affairs such as concerns about child care, student travel, and presentations at academic conferences.
* Faculty Senate (Clayton State University) – I was an active member of Faculty Senate for the 2009-2010 academic year. This is the major governing body of the college faculty.
* Science Building Design Committee (Clayton State University) – represented the physics division as Clayton State University proposed a new science building. I provided input on what facilities are needed to support a future physics program.
* Department Curriculum Committee (Clayton State University) – Served two one-year terms on this committee charged with reviewing proposed program and curriculum changes prior to sending them on to the college committee.
* Department Search Committee (Clayton State University) – Served on this committee that successfully performed a national search to fill a biology faculty line.
* Scholar of the Year Committee (Clayton State University) – Served a term on the inaugural award committee charged to determine the criteria for the award, nomination process and timeline, and first recipient of this award.
* Served as a judge for various science fairs in the public schools in neighboring counties.
* Graduate Admissions Committee (Michigan State University) – Served a one-year term as a graduate student member reviewing applications and helping to make admissions decisions in the Physics Department.

**Honors**

* Nominated by department head for the Clayton State 2009 College of Arts and Sciences Teacher of the Year Award.
* Consistently high student evaluations including the highest student evaluation score of the entire faculty of the College of Arts and Sciences at Clayton State University during the Spring 2008 semester.
* Four time recipient of Award for Excellence in Teaching, University of Illinois.

**Consulting**

* Hired by Strieter Corporation to create and provide proof-of-concept engineering drawings for a new escalator design. These drawings are part of a patent application (application # 13603820) for an escalator concept solution by John Strieter. Once the patent had been approved, an animation of the product will be designed for marketing and sale of the patent.
* Co-authored and designed a second escalator model. Created proof-of-concept engineering drawings and applied for a patent (application # 13610064).

**Advising**

* Since 2011, I have served as a First Year advisor. Each year I am assigned 15-20 students, and I help them with their transition to college and help them explore their interests to aid them in determining an appropriate major.
* Since August 2010, I have served as the engineering advisor with typically 30-40 advisees. I regularly hold advising meetings for engineering physics students following the 3-2 engineering program as well as those that plan to stay at Augustana for 4 years.
* From August 2007-May 2010, I advised several pre-engineering students with their course plans and help them prepare to transfer to an engineering school from Clayton State University.

**Professional Memberships**

American Association of Physics Teachers – national and local chapter

American Physical Society

Sigma Xi

**Research Interests**

* Design of interdisciplinary laboratory experiments.
* Physics education including student learning tools such as homework and clickers.
* Experimental High Energy Physics including search for the Higgs boson and perturbative and non-perturbative QCD through direct photon production.
* Detector mechanical design and construction.

**Student Research**

Undergraduate research students I mentor choose an interdisciplinary project of interest, perform a literature review, design a new experiment, and write a final laboratory report.

Summer 2012 Quantum Tunneling and Photosynthesis Experiment

* Simulates electron transport for specific plant pigments and their associated energies through the mechanism of quantum tunneling
* Under preparation for presentation at Augustana College’s Celebration of Learning and AAPT Summer 2013 Conference

Summer 2012 Optics of the Human Eye Experiment

* Connects physical optics through the use of an adjustable focal length lens to human anatomy including eye accommodation, near-sightedness, far-sightedness, and astigmatism
* Under preparation for presentation at Augustana College’s Celebration of Learning

Summer 2011 Resistance, Resistivity and Axons Experiment

* Designed and tested a new apparatus that models axon response including causes for multiple sclerosis
* Under preparation for publication

Spring 2009 Honors Project studying axons across the animal kingdom and the underlying physics principles that govern their response

Fall 2008 Explosion/Reverse Collision Experiment

* Designed a new apparatus measuring spring constant and modeling explosions as a reverse collision

**Research Experience**

**Study in Online vs. Traditional Physics Homework**

I am the primary investigator on a research project to study which mode of homework, written or online, is a better learning tool for physics students. This project has been approved by Clayton State University’s Institutional Review Board, and data was collected during the Fall 2008 semester. I am working with a collaborator from Michigan State University who is helping in the analysis, background literature, and the publication of the work. We are also planning a study on the use of clickers in the classroom.

**Diphoton Cross-Section Measurement**

The diphoton cross-section is an important measurement for use in future analyses at D0 and experiments using the Large Hadron Collider at CERN involving QCD measurements as well as the search for the Higgs Boson.

I have conducted an analysis and measurement of the diphoton cross-section using approximately 1fb-1 of data collected with the D0 detector and compared this to theory. This work was performed for my dissertation.

**Level 2 Global Trigger**

The Level 2 trigger system is a portion of the overall trigger framework for data acquisition at D0. The global processor combines information from all of the detector subsystems to create global physics objects, and proceeds to filter these objects to determine if the event should be saved and passed to Level 3.

I maintained and developed the Level 2 Global Trigger for the D0 experiment. This work included writing new filters and tools as needed by the Level 2 coordinator and by other trigger designers. These algorithms also required testing and implementing them with the rest of the trigger system.

**Athena Developer**

Athena is a software package that assisted collaborators in the Higgs analysis group in interfacing with the structure in which the data was stored at D0. I helped maintain and update this package as newly developed algorithms and variables were required by users.

**Trigsim Certification**

Trigsim is a program that simulates how the trigger framework will respond to given inputs from the D0 detector. This allows developers to determine results to proposed changes prior to being implemented. When changes are officially made, the new version must be certified for collaborators to know that the changes are correct and problem free. I developed and ran this process.

**Public Talks and Presentations**

1. Making Learning Visible Conference, Augustana College, Rock Island, IL, April 2011, “Using Real-World Projects to Focus Student Learning.”
2. SACS-AAPT Meeting, Kennesaw State University, Kennesaw, GA, October 2008, “Study in Online vs. Traditional Physics Homework.”
3. D0 Collaboration Meeting, Fermilab, Batavia, IL. December 2006, “QCD Results.” Results included in presentation by Duncan Brown.
4. Graduate Student Seminar, Michigan State University. December 2006, “Diphoton Cross-Section at D0.”
5. Meeting of the American Physical Society, Denver, CO. May 2004, “Diphoton Mass Spectrum at D0.”

**Publications**

1. Dyer, J. M., B. D. Storey, J. L. Hoke, A. M. Jacobi, and J. G. Georgiadis, "*An Experimental Investigation of the Effect of Hydrophobicity on the Rate of Frost Growth in Laminar Channel Flows,*" ASHRAE Transactions, Vol. 106:1, 2000, pp. 143-151.
2. *“Search for Doubly-charged Higgs Boson Pair Production in the Decay to mu+mu+mu-mu- in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. 93, 141801 (2004). [hep-ex/0404015] [FERMILAB-Pub-04/045-E]
3. *“Observation and Properties of the X(3872) Decaying to J/psi pi+pi- in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. 93, 162002 (2004). [hep-ex/0405004] [Fermilab-Pub-04/061-E.]
4. *“Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at Dzero”,* Phys. Rev. Lett. {94}, 041801 (2005). [hep-ex/0408146] [Fermilab-Pub-04/198-E.]
5. *“Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {94}, 221801 (2005). [hep-ex/0409040] [Fermilab-Pub-04/217-E.]
6. *“Measurement of the B\_s^0 Lifetime in the Exclusive Decay Channel B\_s^0->J/psi phi”,* Phys. Rev. Lett. {94}, 042001 (2005). [hep-ex/0409043] [Fermilab-Pub-04/225-E.]
7. *“A Search for the Flavor-Changing Neutral Current Decay B\_s^0->mu+ mu- in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {94}, 071802 (2005). [hep-ex/0410039] [Fermilab-Pub-04/215-E.]
8. *“Measurement of the Ratio of B+ and B0 Meson Lifetimes”,* Phys. Rev. Lett. 94, 182001 (2005). [hep-ex/0410052] [Fermilab-Pub-04/284-E.]
9. *“Measurement of the Lambda-B Lifetime in the Decay Lambda-B -> J/psi Lambda With the D0 Detector”,* Phys. Rev. Lett. {94}, 102001 (2005). [hep-ex/0410054] [Fermilab-Pub-04/286-E.]
10. *“A Search for Wbb and WH Production in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {94}, 091802 (2005). [hep-ex/0410062] [Fermilab-Pub-04/288-E.]
11. *“Measurement of the WW Production Cross Section in pbarp Collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {94}, 151801 (2005). [hep-ex/0410066] [Fermilab-Pub-04/293-E.]
12. *“A Measurement of the Ratio of Inclusive Cross Sections pbarp->Zb/pbarp->Zj at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {94}, 161801 (2005). [hep-ex/0410078] [Fermilab-Pub-04/297-E.]
13. *“A search for anomalous heavy-flavor quark production in association with W bosons”,* Phys. Rev. Lett. {94}, 152002 (2005). [hep-ex/0411084] [Fermilab-Pub-04/359-E.]
14. *“First measurement of sigma(ppbar->Z)xBr(Z->tau tau) at sqrt(s)=1.96 TeV”,* Phys. Rev. D {71}, 072004 (2005). [hep-ex/0412020] [Fermilab-Pub-04/381-E.]
15. *“Search for first-generation scalar leptoquarks in ppbar collisions at sqrt(s)=1.96 TeV”,* Phys. Rev. D Rapid Comm. {71}, 071104(R) (2005). [hep-ex/0412029] [Fermilab-Pub-04/389-E.]
16. *“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). [hep-ex/0502036] [Fermilab-Pub-05/023-E.]
17. *“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). [hep-ex/0502030] [Fermilab-Pub-05/020-E.]
18. *“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). [hep-ex/0503048] [Fermilab-Pub-05/046-E.]
19. *“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). [hep-ex/0504019] [Fermilab-Pub-05/061-E.]
20. *“Search for neutral supersymmetric Higgs bosons in multijet events at sqrt(s)=1.96 TeV”,* Phys. Rev. Lett. {95}, 151801 (2005). [hep-ex/0504018] [Fermilab-Pub-05/058-E.]
21. *“Measurement of the ttbar 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.]
22. *“Measurement of the ttbar 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.]
23. *“Search for supersymmetry via associated production of charginos and neutralinos in final states with three leptons”,* Phys. Rev. Lett. {95}, 151805 (2005). [hep-ex/0504032] [Fermilab-Pub-05/075-E.]
24. *“Search for Randall-Sundrum Gravitons in Dilepton and Diphoton Final States”,* Phys. Rev. Lett. {95}, 091801 (2005). [hep-ex/0505018] [Fermilab-Pub-05/126-E.]
25. *“Search for right-handed W bosons in top quark decay”,* Phys. Rev. D Rap. Comm. {72}, 011104(R) (2005). [hep-ex/0505031] [Fermilab-Pub-05/187-E.]
26. *“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.]
27. *“Measurement of the ttbar 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.]
28. *“Search for large extra spatial dimensions in dimuon production at Dzero”,* Phys. Rev. Lett. {95}, 161602 (2005). [hep-ex/0506063] [Fermilab-Pub-05/250-E.]
29. *“Measurement of semileptonic branching fractions of B mesons to narrow D\*\* states”,* Phys. Rev. Lett. {95}, 171803 (2005). [hep-ex/0507046] [Fermilab-Pub-05/313-E.]
30. *“Measurement of the lifetime difference in the Bs system”,* Phys. Rev. Lett. {95}, 171801 (2005). [hep-ex/0507084] [Fermilab-Pub-05/324-E.]
31. “*Search for the Higgs Boson in H->WW(\*) Decays in pbarp Collisions at sqrt(s) = 1.96 TeV*”, Phys. Rev. Lett. {96}, 011801 (2006). [hep-ex/0508054] [Fermilab-Pub-05/377-E.]
32. “*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.]
33. “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.]
34. “*Direct Limits on the Bs0 Oscillation Frequency*”, Phys. Rev. Lett. {97}, 021802 (2006). [hep-ex/0603029] [Fermilab-Pub-06/055-E.]
35. “*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.]
36. “*Search for the Rare Decay B0\_s -> phi mu^+ mu- with the D0 Detector*”, Phys. Rev. D RC {74}, 031107 (2006). [hep-ex/0604015] [Fermilab-Pub-06/073-E.]
37. “*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.]
38. “*Search for Excited Muons in pbarp Collisions at sqrt(s)=1.96 TeV*”, Phys. Rev. D Rap. Comm. 73, 111102 (2006). [hep-ex/0604040] [Fermilab-Pub-06/081-E.]
39. “*Search for Particles Decaying to a Z Boson and a Photon in ppbar Collisions at sqrt(s)=1.96 TeV*”, Phys. Lett. B {641}, 415 (2006). [hep-ex/0605064] [Fermilab-Pub-06/109-E.]
40. “*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.]
41. “*Search for Neutral Higgs Bosons Decaying to Tau Pairs in pbarp Collisions at sqrt(s)=1.96 TeV*”, Phys. Rev. Lett. {97}, 121802 (2006). [hep-ex/0605009] [Fermilab-Pub-06/092-E.]
42. “*Measurement of the B\_s0 Lifetime Using SemiLeptonic Decays*”, Phys. Rev. Lett. {97}, 241801 (2006) [hep-ex/0604046] [Fermilab-Pub-06/085-E.]
43. “*Search for Resonant 2nd Generation Slepton Production at the Tevatron*”, Phys. Rev. Lett. {97}, 111801 (2006). [hep-ex/0605010] [Fermilab-Pub-06/094-E.]
44. “*Search for Heavy Resonance Decaying into a Z+jet Final State in ppbar Collisions at sqrt(s) = 1.96 TeV using the D0 Detector*”, Phys. Rev. D RC {74}, 100104 (2006). [hep-ex/0606018] [Fermilab-Pub-06/167-E.]
45. “*Search for Neutral Long Lived Particles Decaying to Two Muons in ppbar Collisions at sqrt(s) = 1.96 TeV*”, Phys. Rev. Lett. {97}, 161802 (2006). [hep-ex/0607028] [Fermilab-Pub-06/245-E.]
46. “*Search for associated Higgs boson production WH -> WWW\* -> l^\pm l'^\pm +X in ppbar collisions at sqrt(s) = 1.96 TeV*”, Phys. Rev. Lett. {97}, 151804 (2006). [hep-ex/0607032] [Fermilab-Pub-06/246-E.]
47. “*Search for the W' Decay in the top quark channel*”, Phys. Lett. B {641}, 423 (2006). [hep-ex/0607102] [Fermilab-Pub-06/257-E.]
48. “*Search for Pair Production of Scalar Bottom Quarks in ppbar Collisions at sqrt(s) = 1.96 TeV*”, Phys. Rev. Lett. {97}, 171806 (2006). [hep-ex/0608013] [Fermilab-Pub-06/269-E.]
49. “*Limits on anomalous trilinear gauge couplings from WW->ee, WW->emu, and WW->mumu events from pbarp collisions at sqrt(s)=1.96 TeV*”, Phys. Rev. D Brief Rep.{74}, 057101 (2006). [hep-ex/0608011] [Fermilab-Pub-06/268-E.]
50. “*Search for the standard model higgs boson in the ppbar->ZH->nu nubar b bbar channel*”, Phys. Rev. Lett. {97}, 161803 (2006). [hep-ex/0607022] [Fermilab-Pub-06/238-E.]
51. “*Search for scalar leptoquarks in the acoplaner jet topology*”, Phys. Lett. B {640}, 230 (2006). [hep-ex/0607009] [Fermilab-Pub-06/233-E.]
52. “*Measurement of the CP-violating parameter of B^0 mixing and decay in the ppbar -> mu mu X data*”, Phys. Rev. D {74}, 092001 (2006). [hep-ex/0609014] [Fermilab-Pub-06/327-E.]
53. *“Measurement of B\_d Mixing Using Opposite-side Flavor Tagging”*, Phys. Rev. D {74}, 112002 (2006). [hep-ex/0609034] [Fermilab-Pub-06/341-E.]
54. “*Measurement of the W Boson Helicity in Top Quark decay at D0*”, Phys. Rev. D Rapid. Comm. {75}, 031102(R) (2007). [hep-ex/0609045] [Fermilab-Pub-06/345-E.]
55. “*Measurement of the top quark mass in the lepton+jets final state with the matrix element method*”, Phys. Rev. D {74}, 092005 (2006). [hep-ex/0609053] [Fermilab-Pub-06/353-E.]
56. “*Measurement of the top quark mass in the dilepton channel*”, Phys. Lett. B{655}, 7 (2007). [hep-ex/0609056] [Fermilab-Pub-06/354-E.]
57. *“Search for the Pair Production of Scalar Top Quarks in the Acoplaner Charm Jet Final State in pbarp Collisions at sqrt(s)=1.96 TeV*”, Phys. Lett. B {645}, 119 (2007). [hep-ex/0611003] [Fermilab-Pub-06/396-E.]
58. *“Measurement of the t tbar Cross Section in p pbar Collisions at sqrt(s)=1.96 TeV using Secondary Vertex b-tagging*”, Phys. Rev. D {74}, 112004 (2006). [hep-ex/0611002] [Fermilab-Pub-06/386-E.]
59. *“Search for single production of scalar leptoquarks decaying into muons and quarks”,* Phys. Lett. B {647}, 74 (2007). [hep-ex/0612012] [Fermilab-Pub-06/455-E.]
60. *“Measurement of the p-pbar->t-tbar production cross section at sqrt{s}=1.96 TeV in the fully hadronic decay channel”,* Phys. Rev. D {76}, 072007 (2007). [hep-ex/0612040] [Fermilab-Pub-06/426-E.]
61. *“Search for Techniparticles Decaying into e+jets at DZero”,* Phys. Rev. Lett. {98}, 221801 (2007). [hep-ex/0612013] [Fermilab-Pub-06/450-E.]
62. *“Evidence for production of single top quarks and first direct measurement of |V\_tb|”,* Phys. Rev. Lett. {98}, 181802 (2007). [hep-ex/0612052] [Fermilab-Pub-06/475-E.]
63. *“Measurement of the charge asymmetry in semileptonic B\_s decays”,* Phys. Rev. Lett. {98}, 151801 (2007). [hep-ex/0701007] [Fermilab-Pub-07/005-E.]
64. *“Lifetime difference and CP-violating phase in the B\_s system”,* Phys. Rev. Lett. {98}, 121801 (2007). hep-ex/0701012; Fermilab-Pub-07/007-E.
65. *“Search for production of single top quarks via tgc and tug flavor-changing neutral currents at the Tevatron”,* Phys. Rev. Lett. {99}, 191802 (2007). [hep-ex/0702005] [Fermilab-Pub-07/031-E.]
66. *“Measurement of the top quark mass in the lepton+jets channel using the Ideogram Method”,* Phys. Rev. D {75}, 092001 (2007). [hep-ex/0702018] [Fermilab-Pub-07/039-E.]
67. *“Measurement of the shape of the boson rapidity distribution for pp(bar)->Z/gam\*->eeX”,* Phys. Rev. D {76}, 012003 (2007). [hep-ex/0702025] [Fermilab-Pub-07/040-E.]
68. *“Combined D0 Measurements Constraining CP-violating Phase and Width Difference in the B^0\_s System”,* Phys. Rev. D {76}, 057101 (2007). [hep-ex/0702030] [Fermilab-Pub-07/044-E.]
69. *“Search for a Higgs boson produced in association with a Z boson”,* Phys. Lett. B {655}, 209 (2007). [arXiv:0704.2000] [Fermilab-Pub-07/076-E.]
70. *“Measurement of the Lambda\_b lifetime in the exclusive decay Lambda\_b -> J/psi Lambda”,* Phys. Rev. Lett. {99}, 142001 (2007). [arXiv:0704.3909] [Fermilab-Pub-07/094-E.]
71. *“Search for stopped gluinos from p-barp collisions at sqrt{s)=1.96 TeV”,* Phys. Rev. Lett. {99}, 131801 (2007). [arXiv:0705.0306] [Fermilab-Pub-07/100-E.]
72. *“Search for third generation leptoquarks in p-barp collisions at sqrt{s)=1.96 TeV”,* Phys. Rev. Lett. {99}, 061801 (2007). [arXiv:0705.0812] [Fermilab-Pub-07/113-E.]
73. *“Zgamma production and limits on anomalous ZZgamma and Zgammagamma couplings in p-barp collisions at sqrt{s)=1.96 TeV”,* Phys. Lett. B {653}, 378 (2007). [arXiv:0705.1550] [Fermilab-Pub-07/117-E.]
74. “*Measurement of the ttbar production cross section in ppbar collisions at Sqrt(s)=1.96 TeV using kinematic characteristics of lepton + jets events*”, Phys. Rev. {D 76}, 092007 (2007). [arXiv:0705.2788] [Fermilab-Pub-07/128-E.]
75. “*Properties of L=1 B\_1 and B\_2\* Mesons*”, Phys. Rev. Lett. {99}, 172001 (2007). [arXiv:0705.3229] [Fermilab-Pub-07/130-E.]
76. *“Measurement of the ttbar production cross section in ppbar collisions using dilepton events”,* Phys. Rev. D {76}, 052006 (2007). [arXiv:0706.0458] [Fermilab-Pub-07/143-E.]
77. *“Direct observation of the strange b baryon Xi\_b-“,* Phys. Rev. Lett. {99}, 052001 (2007). [arXiv:0706.1690] [Fermilab-Pub-07/196-E.]
78. *“Measurement of the Lambda\_b Lifetime in Semileptonic Decays”,* Phys. Rev. Lett. {99}, 182001 (2007). “arXiv:0706.2358] [Fermilab-Pub-07/205-E.]
79. *“Search for $B\_s^0 -> \mu^+\mu^-$ at D\0”,* Phys. Rev. D {76}, 092001 (2007). [arXiv:0707.3997] [Fermilab-Pub-07/395-E.]
80. *“Measurement of the muon charge asymmetry from W boson decays,”* Phys. Rev. D {77}, R011106 (2008). [arXiv:0709.4254] [Fermilab-Pub-07/493-E.]
81. *“Search for Randall-Sundrum Gravitons with 1 fb-1 of Data from ppbar Collisions at sqrt(s)=1.96 TeV,*” Phys. Rev Lett. {100}, 091802 (2008). [arXiv:0710.3338] [Fermilab-Pub-07/553-E.]
82. *“Search for W' bosons decaying to an electron and a neutrino with the D0 detector,”* Phys. Rev Lett. {100}, 031804 (2008). [arXiv:0710.2966] [Fermilab-Pub-07/499-E.]
83. *“Search for Supersymmetry in Di-photon Final States at sqrt(s)=1.96 TeV,”* Phys. Lett. B{659}, 856 (2008). [arXiv:0710.3946] [Fermilab-Pub-07/560-E.]
84. *“Model-independent measurement of the W boson helicity in top quark decays at D0,”* Phys. Rev. Lett. {100}, 062004 (2008). [arXiv:0711.0032] [Fermilab-Pub-07/588-E.]
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