

Curriculum Vitae  
**Gustavo Javier Otero y Garzón**

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Fermi National Accelerator Laboratory  
DØ Experiment

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## 1 Education

- PhD - University of Illinois at Chicago, USA - 2006.  
Thesis: “Measurement of the Top Quark Pair Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, Phys. Rev. D **74**, 112004 (2006).
- B.S. - University of Buenos Aires, Argentina - 2001.

## 2 Positions Held

- Post-Doctoral Research Associate - Fermi National Accelerator Laboratory - 2007-current.
- Post-Doctoral Fellow - University of Illinois at Chicago - 2006-2007.
- Research Assistant - University of Illinois at Chicago - 2002 to 2006.
- Teaching Assistant - University of Illinois at Chicago - 2001 to 2002.
- Teaching Assistant - University of Buenos Aires - 1999 to 2001.

### 3 Research Experience

- Trigger-Meister at DØ - Fermilab, 2006-2007.  
I became DØ's Trigger Meister for a period of one year in June 2006. The Trigger Meisters play a critical role in the preparation and monitoring of online data taking for the DØ experiment. I coordinated and specified settings of physics and other trigger list configurations and develop the tools needed to use and monitor their performance in on-line data taking. I insured that relevant trigger configuration settings were recorded for later reference.
- Data Analysis within the Top Group at DØ - Fermilab, 2003-current.  
I contributed with studies common to many analyses within the Top Group at DØ . I worked on the measurement of the top quark pair production cross section that lead to three publications [20, 27, 63], the latest of which was my Ph.D. thesis. This thesis describes in detail the currently most precise DØ measurement on the rate at which top pairs are created at the Tevatron. I am currently working on an analysis towards the discovery of the production of single top quarks through electroweak interactions.
- DØ Silicon RunIIb upgrade - University of Illinois at Chicago - Fermilab, 2001-2003.  
As a member of the UIC HEP Group I worked on the DØ Silicon RunIIb upgrade. In 2001, it was decided to extend data taking beyond the initial expectation. This demanded upgrades in many systems of the DØ detector, in particular the Silicon Microstrip Tracker, the sub-detector most exposed to radiation. I developed the software needed to massive production testing of the individual silicon detectors. I also participated in the characterization of the SVX4 readout chips and tuning of the appropriate readout software.
- High Critic Temperature Superconductors - Universtiy of Buenos Aires, Argentina, 1997-1998.  
As a Student Research Fellow I worked within the Low Temperatures Group in the charaterization of high  $T_C$  superconductors. I was involved in the design and construction of a susceptometry measurement device to study phase transitions of ceramic superconductors. The

results were presented at the 1998 Annual Meeting of the Argentine Physical Society.

## 4 Conference Oral Presentations

- The 2007 Europhysics Conference in High Energy Physics, July 2007, Manchester, England. “Top Quark Production and Properties at DØ”. Gustavo Otero y Garzón for the DØ Collaboration.
- The 2007 Phenomenology Symposium: Prelude to LHC, May 2007, Madison, Wisconsin, USA. “Measurement of the Top Quark Mass at DØ”. Gustavo Otero y Garzón for the DØ Collaboration.
- Joint Meeting Of Pacific Region Particle Physics Communities, October 2006, Honolulu, Hawaii, USA. “Measurement of the t-tbar Production Cross Section at DØ Using b-tagging”. Gustavo Otero y Garzón for the DØ Collaboration.
- DØ Summer Physics Workshop, June 2006, Fermilab. “ttbar Production in lepton+jets”.
- DØ Summer Physics Workshop, June 2005, Fermilab. “Top Cross Section in lepton+jets and alljets”.
- American Physical Society meeting, April 2005, Tampa, Florida, USA. “Measurement of the Top Pair Production Cross Section in Lepton+Jets Final States at DØ Using Lifetime b-Tagging”. Gustavo Otero y Garzón for the DØ Collaboration.
- New Perspectives 2003, June 2003, Batavia, Illinois, USA “The Upgraded DZero Silicon Microstrip Tracker for Fermilab Run2b”
- American Physical Society meeting, April 2003, Philadelphia, Pennsylvania, USA. “Design of an Upgraded DZero Silicon Microstrip Tracker for Fermilab Run2b”. Gustavo Otero y Garzón for the DØ Collaboration.

## 5 Publications

1. “Search for Doubly-charged Higgs Boson Production in the Decay  $H^{++}H^{--} \rightarrow \mu^+\mu^+\mu^-\mu^-$  with the DØ Detector at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett **93**, 141801 (2004); hep-ex/040415; FERMILAB-PUB-04/045-E.
2. “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.*, Phys. Rev. Lett. **93**, 162004 (2004); hep-ex/0405004, Fermilab-Pub-04/061-E.
3. “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at DØ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 041801 (2005); hep-ex/0408146; FERMILAB-Pub-04/198-E.
4. “Measurement of Dijet Azimuthal Decorrelations at Central Rapidities in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 221801 (2005); hep-ex/0409040; FERMILAB-Pub-04/217-E.
5. “Measurement of the  $B_s^0$  Lifetime in the Exclusive Decay Channel  $B_s^0 \rightarrow J/\psi\phi$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 042001 (2005); hep-ex/0409043; FERMILAB-Pub-04-225-E.
6. “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”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 071802 (2005); hep-ex/0410039; FERMILAB-Pub-04-215-E.
7. “Measurement of the Ratio of  $B^+$  and  $B_0$  Lifetimes”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 182001 (2005); hep-ex/0410052; FERMILAB-Pub-04-284-E.
8. “Measurement of the  $\Lambda_b$  Lifetime in the Decay  $\Lambda_b \rightarrow J/\psi\Lambda$  with the DØ Detector”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94** 102001 (2005); hep-ex/0410054; FERMILAB-Pub-04-286-E.
9. “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.*, Phys. Rev. Lett. **94** 091802 (2005); hep-ex/0410062; FERMILAB-Pub-04-288-E.
10. “Measurement of the  $WW$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 151801 (2005); hep-ex/0410066; FERMILAB-Pub-04-293-E.

11. “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”, V. M. Abazov et al, Phys. Rev. Lett. **94**, 161801 (2005); hep-ex/0410078; FERMILAB-Pub-04-297-E.
12. “A search for anomalous heavy-flavor quark production in association with W bosons”, V. M. Abazov et al, Phys. Rev. Lett. **94**, 152002 (2005); hep-ex/0411084; FERMILAB-Pub-04-359-E.
13. “First measurement of  $\sigma(p\bar{p} \rightarrow Z) \times \text{Br}(Z \rightarrow \tau\tau)$  at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov et al, Phys. Rev. D **71**, 072004 (2005); hep-ex/0412020; FERMILAB-Pub-04-381-E.
14. “Search for first-generation scalar leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov et al, Phys. Rev. D Rap. Comm. **71**, 071104(R)(2005); hep-ex/0412029; FERMILAB-Pub-04-389-E.
15. “Study of  $Z\gamma$  events and limits on anomalous  $ZZ\gamma$  and  $Z\gamma\gamma$  couplings in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 051802 (2005); hep-ex/0502036; FERMI-PUB-05-023-E.
16. “Measurement of inclusive differential cross sections for  $\Upsilon(1S)$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 232001 (2005); hep-ex/0502030; FERMI-PUB-05-020-E.
17. “Measurement of the  $p\bar{p} \rightarrow W\gamma + X$  Cross section and Limits on Anomalous  $WW\gamma$  Couplings at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. D Rap. Comm. **71**, 091108 (2005); hep-ex/0503048; Fermilab-Pub-05/046-E.
18. “Production of  $WZ$  Events in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV and Limits on Anomalous  $WWZ$  Couplings”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 141802, (2005); hep-ex/0504019, Fermilab-Pub-05/061-E.
19. “Search for neutral supersymmetric Higgs boson in multijet events at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 151801 (2005); hep-ex/0504018, Fermilab-Pub-05/058-E.
- 20.

21. “Measurement of the  $t\bar{t}$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using kinematic characteristics of lepton plus jet events”, V. M. Abazov *et al.*, Phys. Lett. B **626**, 45 (2005); hep-ex/0504043, Fermilab-Pub-05/079-E.
22. “Measurement of the  $t\bar{t}$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton plus jets events with lifetime b-tagging”, V. M. Abazov *et al.*, 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 using trilepton final states”, V. M. Abazov *et al.*, 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”, V. M. Abazov *et al.*, 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”, V. M. Abazov *et al.*, 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  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Lett. B **622** 265-276 (2005); hep-ex/0505063, Fermilab-Pub-05/207-E.
- 27.
28. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV in dilepton final states”, V. M. Abazov *et al.*, Phys. Lett. B **626**, 55 (2005); hep-ex/0505082, Fermilab-Pub-05/217-E.
29. “Search for large extra spatial dimensions in dimuon production at  $D\bar{D}$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95** 161602 (2005); hep-ex/0506063; Fermilab-Pub-05/250-E.
30. “Measurement of semileptonic branching fractions of  $B$  mesons to narrow  $D^{**}$  states”, V. M. Abazov *et al.*, Phys. Rev. Lett. **95** 171803 (2005); hep-ex/0507046; Fermilab-Pub-05/313-E.

31. “Measurement of the lifetime difference in the  $B_s$  system, V. M. Abazov *et al.*, Phys. Rev. Lett. **95**, 171801 (2005); hep-ex/0507084, Fermilab-Pub-05/324-E.
32. “The Upgraded DØ Detector”, V. M. Abazov *et al.*, accepted by Nucl. Instr. and Methods A **565**, 463 (2006), physics/0507191, Fermilab-Pub-05/341-E.
33. “Search for the Higgs Boson in  $H \rightarrow WW^{(*)}$  Decays in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **96**, 011801 (2006); hep-ex/0508054; Fermilab-Pub-05/377-E.
34. “Measurement of the isolated photon cross section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Lett. B **639**, 151 (2006); hep-ex/0511054, FERMI-Pub-05/523-E.
35. “Search for Pair Production of Second Generation Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Lett. B **636**, 183 (2006); hep-ex/0601047, FERMI-Pub-06/017-E.
36. “Direct Limits on  $B_s^0$  Oscillation Frequency”, V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 021802 (2006); hep-ex/0603029, FERMI-Pub-06/055-E.
37. “Measurement of  $B(t \rightarrow bW)/B(t \rightarrow qW)$  at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Lett. B **639**, 616 (2006). hep-ex/0603002; Fermilab-Pub-06/037-E.
38. “Search for the Rare Decay  $B0_s \rightarrow \phi\mu^+\mu^-$  with the DØ Detector”, V. M. Abazov *et al.*, Phys. Rev. D Rap. Comm. **74**, 031107 (2006); hep-ex/0604015; Fermilab-Pub-06/073-E.
39. “Multivariate searches for single top quark production with the DZero detector”, V. M. Abazov *et al.*, Phys. Rev. D **75**, 092007 (2007). hep-ex/0604020; Fermilab-Pub-06/069-E.
40. “Search for Squarks and Gluinos in Events with Jets and Missing Transverse Energy in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”, V. M. Abazov *et al.*, Phys. Lett. B **638**, 119 (2006); hep-ex/0604029; Fermilab-Pub-06/077-E.

41. "Search for Excited Muons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Rev. D (Rapid Communications) **73**, 111102 (2006); hep-ex/0604040; Fermilab-Pub-06/081-E.
42. "Search for Particles Decaying to a  $Z$  Boson and a Photon in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Lett. B **641**, 415 (2006); hep-ex/0605064; Fermilab-Pub-06/109-E.
43. "Search for R-parity Violating Supersymmetry via the LLE Couplings  $\Lambda_{121}$ ,  $\Lambda_{122}$ , or  $\Lambda_{133}$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Lett. B **638**, 441 (2006); hep-ex/0605005; Fermilab-Pub-06/089-E.
44. "Search for Neutral Higgs Bosons Decaying to tau pairs in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 121802 (2006); hep-ex/0605009; Fermilab-Pub-06/092-E.
45. "Measurement of the  $B_s0$  Lifetime Using Semilaptonic Decays", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 241801 (2006); hep-ex/0604046; Fermilab-Pub-06/085-E.
46. "Search for Resonant 2nd Generation Slepton Production at the Tevatron", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 111801 (2006); hep-ex/0605010; Fermilab-Pub-06/094-E.
47. "Search for Heavy Resonance Decaying into a  $Z$ +jet Final State in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV using the  $D\bar{O}$  Detector", V. M. Abazov *et al.*, Phys. Rev. D Rap. Comm. **74**, 011104 (2006); hep-ex/0606018; Fermilab-Pub-06/167-E.
48. "Search for Neutral Long Lived Particles Decaying to Two Muons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 161802 (2006); hep-ex/0607028; Fermilab-Pub-06/245-E.
49. "Search for associated Higgs boson production  $WH \rightarrow WWW^* \rightarrow \ell^\pm \nu \ell'^\pm \nu' + X$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 151804 (2006); hep-ex/0607032; Fermilab-Pub-06/246-E.

50. "Search for the  $W'$  Decay in the top quark channel", V. M. Abazov *et al.*, Phys. Lett. B **641**, 423 xxxxxx (2006); hep-ex/0607102; Fermilab-Pub-06/257-E.
51. "Search for Pair Production of Scalar Bottom Quarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 171806 (2006); hep-ex/0608013; Fermilab-Pub-06/269-E.
52. "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", V. M. Abazov *et al.*, Phys. Rev. D Brief Rep.74, 057101 (2006); hep-ex/0608011; Fermilab-Pub-06/268-E.
53. "Experimental discrimination between charge  $2e/3$  top quark and charge  $4e/3$  exotic quark production scenarios", V. M. Abazov *et al.*, Phys. Rev. Lett. **98**, 041801 (2007), hep-ex/0608044; Fermilab-Pub-06/278-E.
54. "Measurement of the ratios of the  $Z/\gamma^{*+} \geq n$  jet production cross sections to the total inclusive  $Z/\gamma^{*}$  cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, submitted to Phys. Lett. B, xxxxxx (2006), hep-ex/0608052; Fermilab-Pub-06/283-E.
55. "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.*, Phys. Rev. Lett. **97**, 161803 (2006), hep-ex/0607022; Fermilab-Pub-06/238-E.
56. "Search for scalar leptoquarks in the acoplaner jet topology", V. M. Abazov *et al.*, Phys. Lett. B **640**, 233 (2006); hep-ex/0607009, FERMI-Pub-06/233-E.
57. "Measurement of the CP-violation parameter of  $B^0$  mixing and decay in the  $p\bar{p} \rightarrow \mu\mu + X$  data", V. M. Abazov *et al.*, Phys. Rev. D **74**, 092001 (2006); hep-ex/0609014; Fermilab-Pub-06/327-E.
58. "Measurement of  $B_d$  Mixing Using Opposite-side Flavor Tagging", V. M. Abazov *et al.*, Phys. Rev. D **74**, 112002 (2006); hep-ex/0609034; Fermilab-Pub-06/341-E.

59. "Measurement of the  $W$  Boson Helicity in Top Quark decay at  $D\bar{O}$ "  
V. M. Abazov *et al.*, Phys. Rev. D Rapid. Comm. **75**, 031102(R)  
(2007); hep-ex/0609045; Fermilab-Pub-06/345-E.
60. "Measurement of the top quark mass in the lepton+jets final state with  
the matrix element method", V. M. Abazov *et al.*, Phys. Rev. D **74**,  
092005 (2006); hep-ex/0609053; Fermilab-Pub-06/353-E.
61. "Measurement of the top quark mass in the dilepton channel",  
V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2006);  
hep-ex/0609056; Fermilab-Pub-06/354-E.
62. "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",  
V. M. Abazov *et al.*, Phys. Lett. B **645**, 119 (2007); hep-ex/0611003;  
Fermilab-Pub-06/396-E.
- 63.
64. "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);  
hep-ex/0611002; Fermilab-Pub-06/386-E.
65. "Search for single production of scalar leptoquarks decaying into muons  
and quarks", V. M. Abazov *et al.*, Phys. Lett. B **647**, 74 (2007); hep-  
ex/0612012; Fermilab-Pub-06/455-E.
66. "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.*, sub-  
mitted to Phys. Rev. D , xxxxxx (2007); Fermilab-PUB-06-426-E;  
hep-ex/0612040.
67. "Search for Techniparticles Decaying into e+jets at  $D\bar{O}$ ", V. M. Abazov  
*et al.*, V. M. Abazov *et al.*, Phys. Rev. Lett. **98**, 221801 (2007);  
hep-ex/0612013; Fermilab-Pub-06/450-E.
68. "Evidence for production of single top quarks and first direct measure-  
ment of  $|V_{tb}|$ ", V. M. Abazov *et al.*, Phys. Rev. Lett. **98**, 181902  
(2007); hep-ex/0612052; Fermilab-Pub-06/475-E.

69. "Measurement of the charge asymmetry in semileptonic  $B_s$  decays"  
V. M. Abazov *et al.*, Phys. Rev. Lett. **98**, 151801 (2007); hep-ex/0101007; Fermilab-Pub-07/005-E.
70. "Lifetime difference and CP-violating phase in the  $B_s^0$  system",  
V. M. Abazov *et al.*, Phys. Rev. Lett. **98** 121801 (2007); hep-ex/0101012; Fermilab-Pub-07/007-E.
71. "Search for production of single top quarks via flavor-changing neutral currents at the Tevatron", V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); hep-ex/0702005; Fermilab-Pub-07/031-E.
72. "Measurement of the top quark mass in the lepton + jets channel using the Ideogram Method", V. M. Abazov *et al.*, Phys. Rev. D **75**, 092001 (2007); hep-ex/0702018; Fermilab-Pub-07/039-E.
73. "Measurement of the shape of the boson rapidity distribution for  $p\bar{p} \rightarrow Z/\gamma^* \rightarrow eeX$ , V. M. Abazov *et al.*, accepted by Phys. Rev. D , xxxxxx (2007); hep-ex/0702025; Fermilab-Pub-07/040-E.
74. "Combined  $D\bar{O}$  Measurements Constraining CP-violating Phase and Width Difference in the  $B_s^0$  System", V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); hep-ex/0702030; Fermilab-Pub-07/044-E.
75. "Measurement of the branching fraction  $\text{Br}(B_s \rightarrow D_s^{(*)} D_s^{(*)})$   
V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); hep-ex/0702049; Fermilab-Pub-07/047-E.
76. "Search for a Higgs boson produced in association with a  $Z$  boson",  
V. M. Abazov *et al.*, submitted to Phys. Lett. B , xxxxxx (2007); arXiv:0704.2000; Fermilab-Pub-07/076-E.
77. "Measurement of the  $\Lambda_b$  lifetime in the exclusive decay  $\Lambda_b \rightarrow J\psi\Lambda$ ",  
V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007). arXiv:0704.3909; Fermilab-Pub-07/094-E.
78. "Search for stopped gluinos from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV",  
V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); arXiv:0705.0306; Fermilab-Pub-07/100-E.

79. "Search for third generation leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV", V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); arXiv:0705.0812; Fermilab-Pub-07/113-E.
80. " $Z\gamma$  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.*, submitted to Phys. Lett. B, xxxxxx (2007); arXiv:0705.1550; Fermilab-Pub-07/117-E.
81. "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.*, submitted to Phys. Rev. D, xxxxxx (2007); arXiv:0705.2788; Fermilab-Pub-07/128-E.
82. "Observation and properties of L=1  $B_1$  and  $B_2^*$  Mesons", V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); arXiv:0705.3229; Fermilab-Pub-07/130-E.
83. "Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions using dilepton events", V. M. Abazov *et al.*, submitted to Phys. Rev. Lett. , xxxxxx (2007); arXiv:0706.0458; Fermilab-Pub-07/143-E.

## 5.1 DØ Internal Notes

1. "Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV using Secondary Vertex b-Tagging", G. Otero y Garzón, E. Shabalina, C. Gerber, DØ Note 5113, 2006.
2. "Taggability in Pass2 p14 Data", G. Otero y Garzón, E. Shabalina, C. Gerber, DØ Note 4995, 2006.
3. "Measurement of the  $t\bar{t}$  production cross section at  $\sqrt{s} = 1.96$  TeV using lifetime tagging", C. Clement, . Otero y Garzón, S. Lager, F. Ritzadinova, E. Shabalina, J. Strandberg, DØ Note 4900, 2005.
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5. “Measurement of the  $t\bar{t}$  Production Cross-section at  $\sqrt{s} = 1.96$  TeV in Dilepton Final States”, S. Anderson, S. Burke, S. Banerjee, B. Choudhary, C.Clement, K. Johns, R. Kehoe, J. Kozminski, A. Kumar, J. Leveque, P. Mal, G. Otero y Garzón, A. Quadt, K. Ranjan, E. Shabalina, DØ Note 4683, 2005.
6. “Measurement of the  $t\bar{t}$  Production Cross-Section at  $\sqrt{s}=1.96$  TeV in the Electron+Jets Final State using a Topological Method”, C. Clement, C. Gerber, G. Otero y Garzón, M.-A. Pleier, E. Shabalina, J-R. Vlimant, DØ Note 4662, 2004.
7. “Study of EM efficiencies in p14 data for top analysis”, Gustavo Otero y Garzón, E. Shabalina, C. Gerber, DØ Note 4655, 2004.
8. “Testing of the Silicon Modules for the Run IIb Silicon Detector”, J.Novak, S.Burdin, J.Fast, A.Nomerotski, G. Otero y Garzón, DØ Note 4304, 2003.

## **6 Schools Attended**

- CTEQ summer school, Madison, (WI) - 2002.

## **7 Awards**

- Outstanding Thesis Award, University of Illinois, 2007.

## **8 Memberships**

- American Physical Society - since 2003.

## **9 Languages**

- Spanish.

- Fluent in English.

## **10 Personal**

- Citizen of Argentina, born August 28, 1970.