

CURRICULUM VITAE

1. DATOS GENERALES

Nombre: **EDUARD DE LA CRUZ BURELO**

Lugar de Nacimiento : **Comalcalco Tabasco, México**

Edad: **30 años**

ESCOLARIDAD:

DOCTORADO	Doctor en Ciencias, especialidad Física Centro de Investigación y Estudios Avanzados del IPN, Campus México, Departamento de Física, México D.F., México, Marzo 2005.
MAESTRIA	Maestro en Ciencias, especialidad Física Centro de Investigación y Estudios Avanzados del IPN, Campus México, Departamento de Física, México D.F., México, Diciembre 2002.
LICENCIATURA	Licenciado en Física Universidad Juárez Autónoma de Tabasco, Cunduacán Tabasco México, Febrero 2000.

EXPERIENCIA PROFESIONAL:

Marzo 2005 - a la fecha, Investigador Asociado, Departamento de Física, *The University of Michigan*, Ann Arbor, Michigan, Estados Unidos de América.

Abril 2005 - a la fecha, Investigador Visitante, European Organization for Nuclear Research (CERN), Meyrin, Ginebra Suiza.

Noviembre 2001- Febrero 2005 : Investigador Visitante, Fermi National Accelerator Laboratory (Fermilab), Batavia Illinois, Estados Unidos de América.

Desde 2006 Investigador Nacional Nivel I (SNI I)

2. Productos de Investigación o Desarrollo:

Publicaciones en revistas de prestigio internacional con arbitraje

2008:

- 2.1.a.1** “Measurement of the ratios of the $Z/\gamma^* + \geq n$ jet production cross sections to the total inclusive Z/γ^* cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **658**, 112 (2008), hep-ex/0608052; Fermilab-Pub-06/283-E.
- 2.1.a.2** “Measurement of the muon charge asymmetry from W boson decays”, V. M. Abazov *et al.*, Phys. Rev. D **77**, 011106R (2008). arXiv:0709.4254; Fermilab-Pub-07/493-E.
- 2.1.a.3** “Search for Randall-Sundrum Gravitons with 1 fb^{-1} of Data from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev Lett. **100**, 091802 (2008). arXiv:0710.3338; Fermilab-Pub-07/553-E.
- 2.1.a.4** “Search for W' bosons decaying to an electron and a neutrino with the DØ detector”, V. M. Abazov *et al.*, Phys. Rev Lett. **100**, 031804 (2008). arXiv:0710.2966; Fermilab-Pub-07/499-E.
- 2.1.a.5** “Search for Supersymmetry in Di-photon Final States at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **659**, 856 (2008). arXiv:0710.3946; Fermilab-Pub-07/560-E.
- 2.1.a.6** “Model-independent measurement of the W boson helicity in top quark decays at D0”, V. M. Abazov *et al.*, Phys. Rev. Lett. **100**, 062004 (2008). arXiv:0711.0032; Fermilab-Pub-07/588-E.
- 2.1.a.7** “Observation and Properties of the Orbitally Excited B_s^{2*} Meson”, V. M. Abazov *et al.*, Phys. Rev. Lett. **100**, 082002 (2008). arXiv:0711.0319; Fermilab-Pub-07/585-E.
- 2.1.a.8** “Search for flavor-changing-neutral-current D meson decays”, V. M. Abazov *et al.*, Phys. Rev. Lett. **100**, 101801 (2008). arXiv:0708.2094; Fermilab-Pub-07/423-E.
- 2.1.a.9** “Search for ZZ and $Z\gamma^*$ production in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV and limits on anomalous ZZZ and $ZZ\gamma^*$ couplings”, V. M. Abazov *et al.*, Phys. Rev. Lett. **100**, 131801 (2008). arXiv:0712.0599; Fermilab-Pub-07/641-E.
- 2.1.a.10** “Measurement of the shape of the boson transverse momentum distribution in $p\bar{p} \rightarrow Z/\gamma^* \rightarrow e^+e^- + X$ events produced at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **100**, 102002 (2008). arXiv:0712.0803; Fermilab-Pub-07/642-E.
- 2.1.a.11** “First measurement of the forward-backward charge asymmetry in top quark pair production”, V. M. Abazov *et al.*, Phys. Rev. Lett., **142002** (2008). arXiv:0712.0851; Fermilab-Pub-07/645-E.
- 2.1.a.12** “Search for Squarks and Gluinos in Events with Jets and Missing Transverse Energy using 2.1 fb^{-1} of $p\bar{p}$ Collision Data at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Lett. B **660**, 449 (2008); arXiv:0712.3805; Fermilab-Pub-07/668-E.

2007:

- 2.1.a.13** “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.
- 2.1.a.14** “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.
- 2.1.a.15** “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.
- 2.1.a.16** “Measurement of the top quark mass in the dilepton channel”, V. M. Abazov *et al.*, Phys. Lett. B **655**, 7 (2007); hep-ex/0609056; Fermilab-Pub-06/354-E.
- 2.1.a.17** “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.
- 2.1.a.18** “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.
- 2.1.a.19** “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.*, Phys. Rev. D **76**, 072007 (2007); Fermilab-PUB-06-426-E; hep-ex/0612040.
- 2.1.a.20** “Search for Techiparticles 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.
- 2.1.a.21** “Evidence for production of single top quarks and first direct measurement of $|V_{tb}|$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **98**, 181802 (2007); hep-ex/0612052; Fermilab-Pub-06/475-E.
- 2.1.a.22** “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.
- 2.1.a.23** “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.

- 2.1.a.24** “Search for production of single top quarks via flavor-changing neutral currents at the Tevatron”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 191802 (2007); hep-ex/0702005; Fermilab-Pub-07/031-E.
- 2.1.a.25** “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.
- 2.1.a.26** “Measurement of the shape of the boson rapidity distribution for $p\bar{p} \rightarrow Z/\gamma^* \rightarrow eeX$ ”, V. M. Abazov *et al.*, Phys. Rev. D **76**, 012003 (2007); hep-ex/0702025; Fermilab-Pub-07/040-E.
- 2.1.a.27** “Combined D0 Measurements Constraining CP-violating Phase and Width Difference in the B_s^0 System”, V. M. Abazov *et al.*, Phys. Rev. D **76**, 057101 (2007); hep-ex/0702030; Fermilab-Pub-07/044-E.
- 2.1.a.28** “Measurement of the branching fraction $\text{Br}(B_s \rightarrow D_s^{(*)} D_s^{(*)})$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 241801 (2007); hep-ex/0702049; Fermilab-Pub-07/047-E.
- 2.1.a.29** “Search for a Higgs boson produced in association with a Z boson”, V. M. Abazov *et al.*, Phys. Lett. B **655**, 209 (2007); arXiv:0704.2000; Fermilab-Pub-07/076-E.
- 2.1.a.30** “Measurement of the Λ_b lifetime in the exclusive decay $\Lambda_b \rightarrow J/\psi\Lambda$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 142001 (2007). arXiv:0704.3909; Fermilab-Pub-07/094-E.
- 2.1.a.31** “Search for stopped gluinos from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 131801 (2007); arXiv:0705.0306; Fermilab-Pub-07/100-E.
- 2.1.a.32** “Search for third generation leptoquarks in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 061801 (2007); arXiv:0705.0812; Fermilab-Pub-07/113-E.
- 2.1.a.33** “ $Z \gamma$ 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.*, Phys. Lett. B **653**, 378 (2007); arXiv:0705.1550; Fermilab-Pub-07/117-E.
- 2.1.a.34** “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.*, Phys. Rev. D **76**, 092007 (2007); arXiv:0705.2788; Fermilab-Pub-07/128-E.
- 2.1.a.35** “Observation and properties of L=1 B_1 and B_2^* Mesons”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 172001 (2007); arXiv:0705.3229; Fermilab-Pub-07/130-E.

- 2.1.a.36** “Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions using dilepton events”, V. M. Abazov *et al.*, Phys. Rev. D **76**, 052006 (2007); arXiv:0706.0458; Fermilab-Pub-07/143-E.
- 2.1.a.37** “Direct observation of the strange b baryon Ξ_b^- ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 052001 (2007); arXiv:0706.1690; Fermilab-Pub-07/196-E.
- 2.1.a.38** “Measurement of the Λ_b Lifetime in Semileptonic Decays”, V. M. Abazov *et al.*, Phys. Rev. Lett. **99**, 182001 (2007); arXiv:0706.2358; Fermilab-Pub-07/205-E.
- 2.1.a.39** “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.*, Phys. Lett. B **659**, 500 (2008); arXiv:0707.2864; Fermilab-Pub-07/352-E.
- 2.1.a.40** “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.*, Phys. Rev. D **76**, 111104R (2007); arXiv:0709.2917; Fermilab-Pub-07/488-E.
- 2.1.a.41** “Search for $B_s^0 \rightarrow \mu^+\mu^-$ at $D\bar{O}$ ”, V. M. Abazov *et al.*, Phys. Rev. D **76**, 092001 (2007); arXiv:0707.3997; Fermilab-Pub-07/395-E.

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- 2.1.a.42** “The Upgraded $D\bar{O}$ Detector”, V. M. Abazov *et al.*, Nucl. Instr. and Methods A **565**, 463 (2006), physics/0507191, Fermilab-Pub-05/341-E.
- 2.1.a.43** “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.
- 2.1.a.44** “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.
- 2.1.a.45** “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.
- 2.1.a.46** “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.
- 2.1.a.47** “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.

- 2.1.a.48** “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.
- 2.1.a.49** “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.
- 2.1.a.50** “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.
- 2.1.a.51** “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.
- 2.1.a.52** “Search for R-parity Violating Supersymmetry via the LLE Couplings Λ_{121} , Λ_{122} , or Λ_{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.
- 2.1.a.53** “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.
- 2.1.a.54** “Measurement of the B_s0 Lifetime Using Semileptonic Decays”, V. M. Abazov *et al.*, Phys. Rev. Lett. **97**, 241801 (2006); hep-ex/0604046; Fermilab-Pub-06/085-E.
- 2.1.a.55** “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.
- 2.1.a.56** “Search for Heavy Resonance Decaying into a Z +jet Final State in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV using the DØ Detector”, V. M. Abazov *et al.*, Phys. Rev. D Rap. Comm. **74**, 011104 (2006); hep-ex/0606018; Fermilab-Pub-06/167-E.
- 2.1.a.57** “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.
- 2.1.a.58** “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.
- 2.1.a.59** “Search for the W' Decay in the top quark channel”, V. M. Abazov *et al.*, Phys. Lett. B **641**, 423 (2006); hep-ex/0607102; Fermilab-Pub-06/257-E.

- 2.1.a.60** “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.
- 2.1.a.61** “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.
- 2.1.a.62** “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.
- 2.1.a.63** “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.
- 2.1.a.64** “Search for scalar leptoquarks in the acoplaner jet topology”, V. M. Abazov *et al.*, Phys. Lett. B **640**, 230 (2006); hep-ex/0607009, FERMI-Pub-06/233-E.
- 2.1.a.65** “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.
- 2.1.a.66** “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.
- 2.1.a.67** “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.

2005:

- 2.1.a.68** “Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events at $D\bar{D}$ ”, V. M. Abazov *et al.*, Phys. Rev. Lett. **94**, 041801 (2005); hep-ex/0408146; FERMILAB-Pub-04/198-E.
- 2.1.a.69** “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.
- 2.1.a.70** “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.

- 2.1.a.71** “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.
- 2.1.a.72** “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.
- 2.1.a.73** “Measurement of the Λ_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.
- 2.1.a.74** “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.
- 2.1.a.75** “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.
- 2.1.a.76** “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.
- 2.1.a.77** “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.
- 2.1.a.78** “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.
- 2.1.a.79** “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.
- 2.1.a.80** “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.
- 2.1.a.81** “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.

- 2.1.a.82** “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.
- 2.1.a.83** “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.
- 2.1.a.84** “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.
- 2.1.a.85** “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.
- 2.1.a.86** “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.
- 2.1.a.87** “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.
- 2.1.a.88** “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.
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2.1.c.1 “B hadron lifetime measurements at the Tevatron experiments”, E. De La Cruz Burelo, Nucl. Phys. Proc. Suppl. **167**, 201 (2007), *Prepared for 7th International Conference on Hyperons, Charm and Beauty Hadrons (BEACH 2006), Lancaster, England, 2-8 Jul 2006*

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2.1.c.3 “Hyperon polarization in a quark-quark scattering model”, E. De La Cruz Burelo and H. A. Neal, AIP Conf. Proc. **915**, 449 (2007), *Prepared for 17th International Spin Physics Symposium (SPIN06), Kyoto, Japan, 2-7 Oct 2006*

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4. Información correspondiente a los criterios de repercusión académica

4.9 Presentaciones por invitación en Conferencias:

1. “ Λ_b and heavy states at Tevatron”, Ponencia invitada en la conferencia BEAUTY 2005, representando a las colaboraciones CDF y DØ del Fermi National Accelerator Laboratory (Batavia Illinois Estados Unidos). Junio 20-24, 2005, Assisi Perugia, Italy.
2. “Lifetime of B-hadrons”, Ponencia invitada en la conferencia BEACH 2006, representando a las colaboraciones CDF y DØ del Fermi National Accelerator Laboratory (Batavia Illinois Estados Unidos). Julio 2-8, 2006, Lancaster Inglaterra.
3. “Properties of Excited and Heavy b-hadrons”, Ponencia invitada en la conferencia EPS HEPP 2007 (The 2007 Europhysics Conference on High Energy Physics), representando a las colaboraciones CDF y DØ del Fermi National Accelerator Laboratory (Batavia Illinois Estados Unidos). Julio 19-25, 2007, Manchester Inglaterra.
4. “Recent b spectroscopy results”, Ponencia invitada en la conferencia DIS 2008 (Deep-Inelastic Scattering and Related Subjects), representando a las colaboraciones CDF y DØ del Fermi National Accelerator Laboratory (Batavia Illinois Estados Unidos). Abril 7-11, 2008, University College London, Londres Inglaterra.
5. “Early ATLAS results from Heavy Flavour Physics”, Ponencia plenaria invitada en la conferencia BEACH 2008, representando a la colaboración ATLAS del Centro Europeo para la Investigación Nuclear (CERN) (Meyrin Suiza). Junio 22-28, 2008, Coolumbia, Estados Unidos.

5. Criterios Adicionales

Otras conferencias y seminarios presentados:

1. “Inclusive B hadron lifetime at DØ”, Presentación en la reunión de la American Physical Society, División de Particles y Campos, Abril 5-8, 2003, Philadelphia Pennsylvania, U.S.A.

2. **“B hadron lifetimes from $D\bar{0}$ ”**, Presentacion en la reunion de la División de Partículas y Campos de la American Physical Society, Agosto 26-31, 2004, Riverside California, U.S.A.
3. **“ Ξ_b discovery”**, Joined Theoretical and Experimental seminar, Junio 15, 2007. Fermi National Accelerator Laboratory, Batavia, Illinois, Estados Unidos.
4. **“Discovery of a strangely beautiful baryon”**, Seminaire du SPP, Laboratoire de recherche sur les lois fondamentales de l’Univers, Septiembre 10, 2007. Paris Francia.