Publications

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1 Selected Personal Publications

In this section I present some of my main journal publications, for which I was the main author and contributed almost exclusively in the analysis or sub-analysis. I also present my conference proceedings and theses.

1) "Search for New Dielectron Resonances and Randall-Sundrum Gravitons at the Collider Detector at Fermilab"

CDF Collaboration, Phys. Rev. Lett. **107**, 191806 (2011).

A search for new dielectron mass resonances using data recorded by the CDF II detector and corresponding to an integrated luminosity of 5.7 fb^{-1} is presented. No significant excess over the expected standard model prediction is observed. In this dataset, an event with the highest dielectron mass ever observed (960 GeV/c^2) was recorded. The results are interpreted in the Randall-Sundrum (RS) model. Combined with the 5.4 fb^{-1} diphoton analysis, the RS-graviton mass limit for the coupling $k/\overline{M}_{Pl} = 0.1$ is 1055 GeV/c^2, making it the strongest limit to date.

2) "Search for Ranall-Sundrum Gravitons at CDF"

J. Strologas, Proceedings of XIX International Workshop on Deep Inelastic Scattering and related subjects (DIS11), FERMILAB-CONF-11-474 (2011).

We present a search for Randall-Sundrum (RS) gravitons decaying to diphotons or dielectrons or

dimuons, performed with the CDF II detector and using up to 5.7 fb^{-1} of integrated luminosity. The respective mass spectra are consistent with the ones expected by the standard model. For the RS-model parameter $k/\overline{M}_{Pl} = 0.1$, RS-gravitons with mass less than 1111 GeV/c^2 are excluded at 95% CL.

3) "Non-SUSY searches at the Tevatron"

John Strologas, Transactions of the XLVI International Conference on QCD and High Energy Interactions (Rencontres de Moriond), arXiv:1108.6025v1 [hep-ex] (2011).

We present recent results from searches for new physics beyond supersymmetry performed at the Tevatron accelerator at Fermilab. The CDF and DØ analyses presented here utilized data of integrated luminosity up to 6 fb^{-1}. We cover leptonic and bosonic resonances interpreted in the Randall-Sundrum graviton and new-boson models, rare final states, and the search for vector-like quarks.

4) "Search for trilepton SUSY signal at CDF"

J. Strologas, Proceedings of the XIX International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY09), AIP Conf. Proc. 1200, 275 (2010).

The chargino-neutralino production with subsequent leptonic decays is one of the most promising supersymmetry (SUSY) signatures at the Tevatron proton-antiproton collider. We present the most recent results on the search for the three-lepton and missing-transverse-energy SUSY signature using 3.2 fb^{-1} of data collected with the CDF II detector. The results are interpreted within the minimal supergravity (mSUGRA) scenario.

5) "Search for new physics in the $\mu\mu + e/\mu + \not{E}_T$ channel with a low-p_T lepton threshold at the Collider Detector at Fermilab"

CDF Collaboration, Phys. Rev. D **79**, 052004 (2009).

A search for new physics using three-lepton (trilepton) data collected with the CDF II detector and corresponding to an integrated luminosity of 976 pb^{-1} is presented. The standard model predicts a low rate of trilepton events, which makes some supersymmetric processes, such as chargino-neutralino production, measurable in this channel. The $\mu\mu + \ell$ signature is investigated,

where ℓ is an electron or a muon, with the additional requirement of large missing transverse energy. In this analysis, the lepton transverse momenta with respect to the beam direction (p_T) are as low as 5 GeV/c, a selection that improves the sensitivity to particles which are light as well as to ones which result in leptonically decaying tau leptons. At the same time, this low-p_T selection presents additional challenges due to the non-negligible heavy-quark background at low lepton momenta. This background is measured with an innovative technique using experimental data. Several dimuon and trilepton control regions are investigated, and good agreement between experimental results and standard-model predictions is observed. In the signal region, we observe one three-muon event and expect 0.4 ± 0.1 $\mu\mu+\ell$ events from standard-model processes.

6) "Search for new physics at CDF"

J. Strologas, Proceedings of the Lake Louise Institute 2009: Fundamental Interactions, arXiv:0906.3932 [hep-ex], to be published (2009).

We present the current status of the search for new physics at CDF, using integrated luminosity up to 3.2 fb^{-1} . We cover searches for supersymmetry, extra dimensions, new heavy bosons, and generic dilepton resonances.

7) "Supersymmetry searches at the Tevatron"

J. Strologas, Proceedings of the XLIII Rencontres de Moriond, International Conference on QCD and High Energy Interactions, La Thuile, Italy, March 8-15, 2008, arXiV:0806.2522 [hep-ex], The Gioi Publishers, p. 87 (2008).

We present the current status of searches for supersymmetry performed at the Tevatron accelerator at Fermilab by the CDF and D0 collaborations using luminosity of up to 2.1 fb^{1} . We focus on searches for charginos, neutralinos, squarks, gluinos and sneutrinos in several supersymmetric scenarios. No supersymmetric signal is detected and limits on the masses and production cross sections for the supersymmetric particles are set.

8) "Search for chargino-neutralino production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV"

CDF Collaboration, Phys. Rev. Lett. **99**, 191806 (2007).

We present a search for associated production of the chargino and neutralino supersymmetric particles using up to 1.1 fb^{-1} of integrated luminosity collected by the CDF II experiment at the Tevatron $p\bar{p}$ collider at $\sqrt{s}$ = 1.96 TeV. We analyze events with a large transverse momentum imbalance and either three charged leptons or two charged leptons of the same electric charge. The numbers of observed events are consistent with standard model expectations. Upper limits on the production cross section are derived in different theoretical models.

9) "Track Extrapolation and Distribution for the CDF-II Trigger System"

R. Downing, N. Eddy, L. Holloway, M. Kasten, H. Kim, J. Kraus, C. Marino, K. Pitts, J. Strologas, A. Taffard, Nucl. Inst. Meth. A **570**, 36 (2007).

The CDF-II experiment is a multipurpose detector designed to study a wide range of processes observed in the high energy proton-antiproton collisions produced by the Fermilab Tevatron. With event rates greater than 1 MHz, the CDF-II trigger system is crucial for selecting interesting events for subsequent analysis. This document provides an overview of the Track Extrapolation System (XTRP), a component of the CDF-II trigger system. The XTRP is a fully digital system that is utilized in the track-based selection of high momentum lepton and heavy flavor signatures. The design of the XTRP system includes five different custom boards utilizing discrete and FPGA technology residing in a single VME crate. We describe the design, construction, commissioning and operation of this system.

10) "Search for Chargino-Neutralino Production at CDF"

J. Strologas, Proceedings of the XIV International Conference on Supersymmetry and the Unification of Fundamental Interactions (SUSY06), AIP Conf. Proc **903**, 169 (2007).

The chargino-neutralino production is one of the most promising SUSY processes that could be observed at the Tevatron. Cross sections of the order of 0.1 pb have not been excluded yet under the mSUGRA scenario, whereas the trilepton signature of the process is not contaminated by significant standard model backgrounds. We report on the status of CDF search for chargino-neutralino production at the Tevatron by presenting the results of five multilepton subanalyses as well as the result of their combination which leads to our current lower limit on the chargino mass

of 127 GeV/c^2 and upper limit on the production cross section times branching ratio to leptons of 0.25 pb at 95% confidence level.

11) "Measurement of the azimuthal angle distribution of leptons from W boson decays as a function of the W transverse momentum in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV"

CDF Collaboration, Phys. Rev. D **73**, 052002 (2006).

We present the first measurement of the A_2 and A_3 angular coefficients of the W boson produced in proton-antiproton collisions. We study $W \to e\nu_e$ and $W \to \mu\nu_\mu$ candidate events produced in association with at least one jet at CDF, during Run Ia and Run Ib of the Tevatron at $\sqrt{s} = 1.8$ TeV. The corresponding integrated luminosity was 110 pb^{-1}. The jet balances the transverse momentum of the W and introduces QCD effects in W boson production. The extraction of the angular coefficients is achieved through the direct measurement of the azimuthal angle of the charged lepton in the Collins-Soper rest-frame of the W boson. The angular coefficients are measured as a function of the transverse momentum of the W boson. The electron, muon, and combined results are in good agreement with the standard model prediction, up to order α_s^2 in QCD.

12) "Study of the angular coefficients and corresponding helicity cross sections of the W boson in hadron collisions"

J. Strologas and S. Errede, Phys. Rev. D **73**, 052001 (2006).

We present the standard model prediction for the eight angular coefficients of the W boson, which completely describe its differential cross section in hadron collisions. These coefficients are ratios of the W helicity cross sections and the total unpolarized cross section. We also suggest a technique to experimentally extract the coefficients, which we demonstrate in the Collins-Soper azimuthal-angle analysis.

13) "Measurement of $\mathcal{B}(t \to Wb)/\mathcal{B}(t \to Wq)$ at the Collider Detector at Fermilab"

CDF Collaboration, Phys. Rev. Lett. **95**, 102002 (2005).

We present a measurement of the ratio of top-quark branching fractions $R = \mathcal{B}(t \to Wb)/\mathcal{B}(t \to Wq)$, where q can be a b, s, or a d quark, using lepton-plus-jets and dilepton data sets with an integrated luminosity of $\sim$162 pb^{-1} collected with the Collider Detector at Fermilab during Run II of the Tevatron. The measurement is derived from the relative numbers of $t\bar{t}$ events with different multiplicity of identified secondary vertices. We set a lower limit of $R > 0.61$ at 95% confidence level.

14) "Diffusion Capacitance and Laser Diodes"

J. Strologas and K. Hess, IEEE Trans. Electron Devices Vol. **51**, N. 3, p. 506 (2004).

The well-known diffusion capacitance is critical in determining the modulation response of pn junctions and particularly of laser diodes. In this brief, we investigate the diffusion capacitance of a diode, as a function of the physical length of the diode and the carrier lifetimes in the narrow active region. We show that diode length and lifetime together, and not just the lifetime (which is well known), determine the bandwidth of the diode.

15) "Measurement of the differential angular distribution of the W boson, produced in association with jets in in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV"

J. Strologas, PhD Physics Thesis, University of Illinois at Urbana-Champaign (2002).

The full differential cross section of the W boson produced in a proton-antiproton collider can be written as a sum of nine terms. Each term is a product of an analytical expression of the azimuthal and polar angles (ϕ and θ) of the charged lepton from the W decay measured in the W-rest frame (leptonic part) times a helicity cross section (hadronic part). By dividing the helicity cross sections by the full unpolarized cross section we end up with eight angular coefficients (A_0–A_7), which describe the W decay distribution. At low W transverse momentum, only one of the angular coefficients is non-zero. In order to study all the coefficients, we need to study the production of the W at high transverse momentum, in association with the production of jets that balance this transverse momentum.

In this thesis we present the first measurement of the A_2 and A_3 angular coefficients, for four ranges of the W transverse momentum p_T^W. We performed the analysis on CDF Run Ia and Run

Ib $W \to e\nu_e$ data (integrated luminosity of 110 pb^{-1}) and $W \to \mu\nu_\mu$ data (integrated luminosity of 107 pb^{-1}) with the requirement for the existence of at least one jet passing the CDF jet requirements. We directly measure the ϕ angle of the charged lepton in the Collins-Soper W rest-frame. In this frame, ϕ is exactly known, in spite of our ignorance of the longitudinal momentum of the decay neutrino. Moreover, the W-mass systematic uncertainty on the measured azimuthal angle is negligible. We extract measurements for the electron and muon channel W decays, and the statistical combination of the two.

We also present the Standard Model prediction for the W angular coefficients A_i as a function of p_T^W, using a W+jet Monte Carlo event generator, which includes gluon loops. The prediction for three of the angular coefficients (A_1, A_4 and A_6) is presented for the first time.

16) "Study of the diffusion capacitance in laser diodes"

J. Strologas, MS Electrical Engineering Thesis, University of Illinois at Urbana-Champaign (2002).

The diffusion capacitance C_{diff} is a critical quantity determining the speed of the laser diodes. Its value depends on the physical halflength L of the diode and the carrier lifetimes τ_{las} in the laser active region. The effect of the diffusion capacitance on the speed of the laser diode is more profound in short laser diodes, where L is small or τ_{las} is high. If a diode is long, the diffusion capacitance is low, as fewer minority carriers reach the contacts. In this thesis we investigate the diffusion capacitance of homogeneous laser diodes, as a function of L, τ_{las} and the applied forward bias. We focus on forward voltage equal to the energy gap divided by the carrier charge (E_g/e) as this is closer to the operation point of the laser diodes or light emitting diodes. It is shown that at low L, $C_{\text{diff}}(E_g/e)$ increases with respect to L, as the increase of the diffused charge is the dominant effect, whereas at higher L the effect of carrier recombination prevails and the $C_{\text{diff}}(E_g/e)$ falls as a function of L. For very low values of τ_{las} , the latter effect is always the most important one and the diffusion capacitance decreases monotonically with L. It is also shown that $C_{\text{diff}}(E_g/e)$ increases with τ_{las} up to a specific value of the lifetime and then it becomes constant, as all the diffused carriers reach the contacts. The value of τ_{las} for this to occur is lower for the physically shorter diodes. Finally, we present the iso-$C_{\text{diff}}(E_g/e)$ curves in the (L, τ_{las}) space to explicitly show which combination of L and τ_{las} results in the same diffusion capacitance at the operational point and equally affects the speed of the laser, for non trivial values of the diffusion capacitance.

This plot could be proven useful for the design of fast and physically short laser diodes.

2 Complete List of Physical Review D and Physical Review Letters Publications

1. **Measurement of $t\bar{t}$ Spin Correlation in $p\bar{p}$ Collisions using the CDF II Detector at the Tevatron**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **83**, 031104 (2011).

2. **Measurement of the B^- Lifetime using a Simulation-Free Approach for Trigger Bias Correction**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **83**, 032008 (2011).

3. **Search for a new Heavy Gauge Boson W' with Event Signature Electron+Missing Transverse Energy in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **83**, 031102 (2011).

4. **Search for Randall-Sundrum Gravitons in the Diphoton Channel at CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **83**, 011102 (2011).

5. **Observation of Single Top Quark Production and Measurement of $|V_{tb}|$ with CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 112005 (2010).

6. **Improved Search for a Higgs Boson Produced in Association with $Z \to \ell^+\ell^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 251802 (2010).

7. **Top Quark Mass Measurement in the Lepton+Jets Channel Using a Matrix Element Method and in situ Jet Energy Calibration**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 252001 (2010).

8. **Diffractive W and Z Production at the Fermilab Tevatron**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 112004 (2010).

9. **Direct Top-Quark Width Measurement at CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 232003 (2010).

10. **Measurement of the $WW + WZ$ Production Cross Section using a Matrix Element Technique in Lepton+Jets Events**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 112001 (2010).

11. **Updated Search for the Flavor-Changing Neutral-Current Decay $D^0 \to \mu^+\mu^-$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 091105 (2010).

12. **Search for R-Parity Violating Decays of Sneutrinos to $e\mu$, $\mu\tau$, and $e\tau$ Pairs in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 191801 (2010).

13. **Search for the Supersymmetric Partner of the Top Quark in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 092001 (2010).

14. **Search for Anomalous Production of Events with Two Photons and Additional Energetic Objects at CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 052005 (2010).

15. **Measurement of the Top Pair Production Cross Section in the Dilepton Decay Channel in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 052002 (2010).

16. **Search for New Physics with a Dijet Plus Missing E_T Signature in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 131801 (2010).

17. **Exclusion of an Exotic Top Quark with -4/3 Electric Charge Using Soft Lepton Tagging**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 101801 (2010).

18. **Measurement of $Z\gamma$ Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 031103 (2010).

19. **Search for the Production of Scalar Bottom Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 081802 (2010).

20. **Studying the Underlying Event in Drell-Yan and High Transverse Momentum Jet Production at the Tevatron**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **82**, 034001 (2010).

21. **Measurement of W-Boson Polarization in Top-Quark Decay in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 042002 (2010).

22. **Combined Tevatron upper limit on $gg \to H \to W^+W^-$ and constraints on the Higgs boson mass in fourth-generation fermion models**, T. Aaltonen *et al.* (CDF Collaboration and D0 Collaboration), Phys. Rev. D **82**, 011102 (2010).

23. **Measurement of the Ratio $\sigma_{t\bar{t}}/\sigma_{Z\gamma^* \to \ell\ell}$ and Precise Extraction of the $t\bar{t}$ Cross Section**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **105**, 012001 (2010).

24. **Search for Pair Production of Supersymmetric Top Quarks in Dilepton Events from $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 251801 (2010).

25. **Search for WW and WZ Resonances Decaying to Electron, Missing E_T, and Two Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV.**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 241801 (2010).

26. **Measurement of the W^+W^- Production Cross Section and Search for Anomalous $WW\gamma$ and WWZ Couplings in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 201801 (2010).

27. **Measurement of the $t\bar{t}$ production cross section in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV using soft electron b-tagging**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 092002 (2010).

28. **Search for Single Top Quark Production in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV in the Missing Transverse Energy plus Jets Topology**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 072003 (2010).

29. **Search for the Higgs Boson Using Neural Networks in Events with Missing Energy and b-Quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 141801 (2010).

30. **First Measurement of the b-Jet Cross Section in Events with a W Boson in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 131801 (2010).

31. **Measurement of the Top Quark Mass and $p\bar{p} \to t\bar{t}$ Cross Section in the All-Hadronic Mode with the CDF II Detector**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 052011 (2010).

32. **Search for Technicolor Particles Produced in Association with a W Boson at CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 111802 (2010).

33. **Study of the Associated Production of Photons and b-quark Jets in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 052006 (2010).

34. **Measurement of the Λ_b^0 Lifetime in $\Lambda_b^0 \to \Lambda_c^+\pi^-$- Decays in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 102002 (2010) .

35. **Measurement of the $WW + WZ$ Production Cross Section Using the lepton+jets Final State at CDF II**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 101801 (2010).

36. **Search for New Bottomlike Quark Pair Decays $Q\bar{Q} \to (tW^{\mp})(\bar{t}W^{\pm})$ in Same-Charge Dilepton Events**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 091801 (2010).

37. **Measurements of Branching Fraction Ratios and CP Asymmetries in $B^{\pm} \to D_{CP}K^{\pm}$ Decays in Hadron Collisions**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 031105 (2010).

38. **Measurement of the Top Quark Mass in the Dilepton Channel Using m_{T2} at CDF**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 031102 (2010).

39. **Inclusive Search for Standard Model Higgs Boson Production in the WW Decay Channel Using the CDF II Detector**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 061803 (2010).

40. **Combination of Tevatron Searches for the Standard Model Higgs Boson in the W^+W^- Decay Mode**, T. Aaltonen *et al.* (CDF Collaboration and D0 Collaborations), Phys. Rev. Lett. **104**, 061802 (2010).

41. **Measurements of the Top-Quark Mass Using Charged Particle Tracking**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **81**, 032002 (2010).

42. **Search for Supersymmetry with Gauge-Mediated Breaking in Diphoton Events with Missing Transverse Energy at CDF II**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **104**, 011801 (2010).

43. **Measurement of the Inclusive Isolated Prompt Photon Cross Section in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV Using the CDF Detector**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 111106 (2009).

44. **Search for the Associated Production of the Standard-Model Higgs Boson in the All-Hadronic Channel**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 221801 (2009).

45. **Search for Higgs Bosons Predicted in Two-Higgs-Doublet Models via Decays to Tau Lepton Pairs in 1.96 TeV $p\bar{p}$ Collisions**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 201801 (2009).

46. **First Observation of $B_s^0 \to D_s^{\pm}K^{\mp}$ and Measurement of the Ratio of Branching Fractions $\mathcal{B}(B_s^0 \to D_s^{\pm}K^{\mp})/\mathcal{B}(B_s^0 \to D_s^{+}\pi^{-})$**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 191802 (2009).

47. **Search for the Higgs boson produced in association with $Z \to \ell^+\ell^-$ using the matrix element method at CDF II**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 071101 (2009).

48. **Observation of the Ω_b^- baryon and measurement of the properties of the Ξ_b^- and Ω_b^- baryons**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 072003 (2009).

49. **Precision Measurement of the X(3872) Mass in $J/\psi\pi^+\pi^-$ Decays**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 152001 (2009).

50. **Search for hadronic decays of W and Z bosons in photon events in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV.**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 052011 (2009).

51. **Search for anomalous production of events with a photon, jet, b-quark jet, and missing transverse energy**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 052003 (2009).

52. **Search for the neutral current top quark decay $t \to Zc$ using the ratio of Z-boson+4 jets to W-boson+4 jets production**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 052001 (2009).

53. **Measurement of the top quark mass using the invariant mass of lepton pairs in soft muon b-tagged events**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. D **80**, 051104 (2009).

54. **Search for Charged Higgs Bosons in Decays of Top Quarks in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 101803 (2009).

55. **Search for a Standard Model Higgs Boson in $WH \to \ell\nu b\bar{b}$ in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 101802 (2009).

56. **First Observation of Vector Boson Pairs in a Hadronic Final State at the Tevatron Collider**, T. Aaltonen *et al.* (CDF Collaboration), Phys. Rev. Lett. **103**, 091803 (2009).

57. **Observation of Electroweak Single Top-Quark Production**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. Lett. **103**, 092002 (2009).

58. **Production of $\psi(2S)$ mesons in $p\bar{p}$ collisions at 1.96 TeV**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. D **80**, 031103 (2009).

59. **Search for a Fermiophobic Higgs Boson Decaying into Diphotons in $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. Lett. **103**, 061803 (2009).

60. **Searching the inclusive $\ell\gamma\not{E}_T + b$-quark signature for radiative top quark decay and non-standard-model processes**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. D **80**, 011102 (2009).

61. **Search for the Production of Narrow $t\bar{b}$ Resonances in 1.9 fb^{-1} of $p\bar{p}$ Collisions at $\sqrt{s} = 1.96$ TeV**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. Lett. **103**, 041801 (2009).

62. **Observation of New Charmless Decays of Bottom Hadrons**, T. Aaltonen *et al.* (CDF Collaboration). Phys. Rev. Lett. **103**, 031801 (2009).

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