

# VITA

**Arthur Barry Wicklund**  
**HEP Division**  
**Argonne National Laboratory**  
**Tel. 630-252-6215**  
**Fax. 630-252-5782**  
**email: "abw@anl.gov"**

## **Education**

B.S., Harvard University, 1964  
Ph.D., University of California at Berkeley, 1970  
**Professional experience**

Senior Physicist, ANL (1987-present)  
Physicist, ANL (1977-1987)  
Assistant Physicist, ANL (1973-1976)  
Postdoctoral fellow, ANL (1970-1972)

## **Professional Activities**

DOE HEP Review panel for BNL (1997-1998).  
DOE HEP Review panel for SLAC (2003-2004).  
University of Chicago Distinguished Performance Award (1997).  
Fellow, American Physical Society.  
Conference and Workshop organization: see summary below.  
Co-Group Leader, ANL CDF Group (1986-present).  
CDF Executive Board.  
CDF Publication Review Committee (2005-present).  
CDF B-Physics co-Convener (1998-2001).  
CDF B-Physics Trigger Convener (2002-2004).  
LEP-SLD-CDF B Oscillations Working Group (1998-2001).  
SDC (SSC) Technical Board (1990-1993).  
DOE Review Panel for LBL PDG (1980).  
ANL Labwide Promotions Committee (1988-1991, 2009-present).  
ANL HEP Strategic Planning Group (Chair 2004-2007)  
ANL HEP Awards Committee  
HEP Senior promotions committee (2007-2008)  
FNAL CDF Review Panel "CDF Upgrades beyond the baseline" (1997-1998)  
FNAL CDF Review Panel, "Plug Calorimeter Upgrade" (1993)  
ANL HEP Seminars (1984-87, 1995-96)

## Research Accomplishment Summary

Construction and operation of ANL Effective Mass Spectrometer (1971-1980).  
Fermilab M6-line high resolution spectrometer experiments (1975-1979).  
Construction and testing of CDF central EM calorimeter (1982-).  
CDF technical notes on electromagnetic and hadronic shower development (1982-).  
Author of CDF shower max. detector reconstruction (1983-).  
Demonstration of CDF prompt photon reconstruction (1987).  
CDF electron calibration strategy for W/Z-boson mass measurements (1989-).  
First conversion electron x-ray of CDF detector (1993-).  
First detection of semileptonic B-decays at CDF (1988).  
Advanced CDF preshower detector project (1987-).  
Advanced shower max.  $e/\gamma$  level-2 trigger (1990-).  
SDC (SSC) calorimeter design, many technical notes and presentations (1990-1993).

## Research activities

Arthur's current research is focused on the CDF detector at the Fermilab Tevatron. He has participated in the CDF project since 1981, and has been group leader for the Argonne CDF effort since 1986. In the design stage of CDF, he worked on prototype studies of the central calorimeters, and during the production stage he was responsible for the central shower max. detector construction. Electron and photon identification, including identification of low  $p_T$  electrons from b-quark decay, have been key strengths of the CDF physics program. He has developed the analysis and trigger strategies used for electron and photon identification, and has initiated successful upgrades to CDF, including the preshower detectors and the shower-max electron/photon triggers.

CDF covers a broad range of physics. In addition to electron and photon identification, Arthur has focused on b-physics measurements and on precision electroweak physics. He developed many of the calibration procedures that CDF uses for W and Z mass measurements and was chosen to give the Fermilab colloquium on the Z-boson mass measurement in 1989 that served as a public press release. In b-physics, he initially focused on semileptonic B-hadron decay signatures to study b-quark cross sections and b-flavor tagging. He served as co-convener for the CDF b-physics group for three years (1998-2001), and as b-physics trigger co-convener (2002-2004).

Arthur has authored many technical notes for CDF, listed below, and has served as technical reviewer for many hardware projects, for example the calorimeter upgrades for Run II and the "beyond the baseline" upgrades that proved vital for the  $B_s$  mixing measurement. He has served as "godfather" for many CDF analyses, including the discovery of the  $B_c$  meson and the first measurements of CP violation in  $B^0 \rightarrow J/\psi K_s$ . Since 2005 he has served as co-convener of the CDF editorial committee, which reviews of order 120 publication paper drafts each year; this is a major responsibility, as can be judged from the publication list below.

During 1988-1993 Arthur collaborated on the design of the Solenoidal Detector, which was one of the two large detectors planned for the Superconducting Super Collider. He worked primarily on the design of the electromagnetic calorimeters, drawing on experience with the CDF detector. He authored several technical notes on electron identification and b-quark tagging for the SDC. He served on the calorimeter technical board and on the SDC executive board, and also served as a technical reviewer for both the charged-particle tracking and the shower-max and preshower detector design efforts. He made many presentations both to the SDC collaboration and to the DOE review panels for SDC. He also made major contributions to planning workshops on the  $B$  physics potential at the SDC.

Prior to CDF and SDC, Arthur participated in fixed-target experiments at FNAL and ANL. At FNAL, he worked on the single-arm spectrometer program in the M6 beamline, and designed beamline and spectrometer tunes used in experiment E99. At the ANL ZGS, he worked on the Effective Mass Spectrometer program, which resulted in precision measurements in meson spectroscopy and later in baryon spectroscopy using polarized beams. He wrote many of the experimental proposals for the EMS and served as spokesperson for five major experiments; he also did a large fraction of the analysis and publication of experimental results. One of many physics results from this program was the first systematic partial-wave analysis of inelastic channels in proton-proton interactions; this demonstrated that there are no conventional Breit-Wigner dibaryon resonances, an open question in the early 1980's. While the scale of the EMS program was eventually dwarfed by the subsequent CDF program, the EMS papers alone garnered 800 citations in the SPIRES catalogue.

Arthur has supervised Ph.D. students- Mark Calkin (Rice U.), Fumihiko Ukegawa (Tsukuba U.), and William Bell (Glasgow U.) and served on thesis defense reviews (cf., John Weinstein, U. Toronto, for Nathan Isgur; Karoly Banazc, Purdue U., for L. Gutay). He has also supervised undergraduates: Nick Solomey, John Finley, Susan Blessing, who have gone on to successful physics careers. He has had numerous fruitful interactions with students and postdocs, especially on the CDF experiment.

## Selected Publications

- B-Physics at the Tevatron, Run II and Beyond, FERMILAB-Pub-01/197 (2001).
- Measurement of  $\sin 2\beta$  with the CDF Detector, CDF Collab., Phys. Rev. D61:072005 (2000).
- Observation of  $B_c$  Mesons in  $p\bar{p}$  collisions, CDF Collab., Phys. Rev. D58:112004 (1998).
- Observation of  $B^+$  and  $B^0$  Decay Lifetimes, CDF Collab., PRL 76:4462 (1996).
- Measurement of the W-Boson Mass, CDF Collab., Phys. Rev. D52:4784 (1995).
- Observation of  $B_s - \bar{B}_s$  Oscillations, CDF Collab., Phys. Rev. Lett. 97, 242003 (2006)

## **Major Scientific Accomplishments**

Meson spectroscopy: (first and only) isospin analysis of K+K- system using proton and neutron targets, showing behavior of scalar mesons in coupled channel  $K\bar{K} - \pi\pi$  systems,  $f - f'$  interference, and more.

Baryon spectroscopy: (first and only) full  $4\pi$  coverage partial wave analysis of inelastic dibaryon channels, showing that the putative resonances are in fact threshold effects.

First measurement of the Z boson mass at the Tevatron: developed calibration techniques for calorimeter and tracking measurements- see FNAL colloquium and press release 1989.

Measurement of CP-violating  $\sin 2\beta$  parameter at CDF.

Measurement of the  $B_s$  mixing frequency at CDF II.

## **Publication Citation Summary from SPIRES (Published Only)**

Renowned papers	(500+ cites)	4
Famous papers	(250-499 cites)	10
Very well-known papers	(100-249 cites)	57
Well-known papers	(50-99 cites)	88
Known papers	(10-49 cites)	228
Less known papers	(1-9 cites)	90
Unknown papers	(0 cites)	19
Total eligible papers analyzed		496
Total number of citations		27188
Average citations per paper		55

# Journal Publications

1. “Search for Long-Lived Massive Charged Particles in 1.96 TeV  $\bar{p}p$  Collisions”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0902.1266 [hep-ex]  
FERMILAB-PUB-09-036-E(2009)
2. “Observation of exclusive charmonium production and  $\gamma\gamma \rightarrow \mu^+\mu^-$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0902.1271 [hep-ex]  
FERMILB-PUB-09-037-E(2009)
3. “Direct Measurement of the  $W$  Production Charge Asymmetry in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [The CDF Collaboration]  
arXiv:0901.2169 [hep-ex]  
FERMILAB-PUB-09-017-E(2009) (Submitted to Phys.Rev.Lett.)
4. “Measurement of the top quark mass at CDF using the neutrino  $\phi$  weighting template method on a lepton plus isolated track sample”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0901.3773 [hep-ex]  
FERMILAB-PUB-05-022-E(2009)
5. “Search for the Decays  $B_{(s)}^0 \rightarrow e^+\mu^-$  and  $B_{(s)}^0 \rightarrow e^+e^-$  in CDF Run II”  
T. Aaltonen *et al.* [The CDF Collaboration]  
arXiv:0901.3803 [hep-ex]  
FERMILAB-PUB-09-021-E(2009)
6. “Search for top-quark production via flavor-changing neutral currents in  $W+1$  jet events at CDF”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0812.3400 [hep-ex]  
FERMILAB-PUB-09-011-E(2008) (Submitted to Phys.Rev.Lett.)
7. “Search for new particles decaying into dijets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [The CDF Collaboration]  
arXiv:0812.4036 [hep-ex]  
FERMILAB-PUB-08-572-E(2008) (Submitted to Phys.Rev.D)

8. “**Observation of New Charmless Decays of Bottom Hadrons**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0812.4271 [hep-ex]  
FERMILAB-PUB-08-573-E(2008) (Submitted to Phys.Rev.Lett.)
9. “**Top Quark Mass Measurement in the Lepton plus Jets Channel Using a Modified Matrix Element Method**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0812.4469 [hep-ex]  
FERMILAB-PUB-08-574-E(2008)
10. “**A search for high-mass resonances decaying to dimuons at CDF**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0811.0053 [hep-ex]  
FERMILAB-PUB-08-512-E(2008) (Submitted to Phys.Rev.Lett.)
11. “**Measurement of W-Boson Helicity Fractions in Top-Quark Decays Using costheta\***”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0811.0344 [hep-ex]  
FERMILAB-PUB-08-511-E(2008) (Submitted to Phys.Lett.B)
12. “**Top Quark Mass Measurement in the tt-bar All Hadronic Channel using a Matrix Element Technique in ppbar Collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0811.1062 [hep-ex]  
FERMILAB-PUB-08-517-E(2008) (Submitted to Phys.Rev.D)
13. “**Inclusive Search for Squark and Gluino Production in ppbar Collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0811.2512 [hep-ex]  
FERMILAB-PUB-08-526-E(2008) (Submitted to Phys.Rev.Lett.)
14. “**Measurement of the  $k_T$  Distribution of Particles in Jets Produced in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0811.2820 [hep-ex]  
FERMILAB-PUB-08-525-E(2008) (Submitted to Phys.Rev.Lett.)
15. “**Search for High-Mass  $e^+e^-$  Resonances in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **102**, 031801 (2009) [arXiv:0810.2059 [hep-ex]]

16. “First Measurement of the Ratio of Branching Fractions  $\mathbf{B}(\Lambda_b^0 \rightarrow \Lambda_c^+ \mu^- \bar{\nu}_\mu) / \mathbf{B}(\Lambda_b^0 \rightarrow \Lambda_c^+ \pi^-)$ ”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **79**, 032001 (2009) [arXiv:0810.3213 [hep-ex]]
17. “Search for new physics in the  $\mu\mu\ell/E_T$  channel with a low- $p_T$  lepton threshold at the Collider Detector at Fermilab”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 arXiv:0810.3522 [hep-ex]  
 FERMILAB-PUB-08-516-E(2008) (Submitted to Phys.Rev.D)
18. “First observation of  $\bar{B}_s^0 \rightarrow D_s^\pm K^\mp$  and measurement of the ratio of branching fractions  $\mathbf{B}(\bar{B}_s^0 \rightarrow D_s^\pm K^\mp) / \mathbf{B}(\bar{B}_s^0 \rightarrow D_s^+ \pi^-)$ ”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 arXiv:0809.0080 [hep-ex]  
 FERMILAB-PUB-08-330-E(2008) (Submitted to Phys.Rev.Lett.)
19. “Measurement of the Single Top Quark Production Cross Section at CDF”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **101**, 252001 (2008) [arXiv:0809.2581 [hep-ex]]
20. “Global Search for New Physics with  $2.0 \text{ fb}^{-1}$  at CDF”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **79**, 011101 (2009) [arXiv:0809.3781 [hep-ex]]
21. “Search for a Higgs Boson Decaying to Two  $W$  Bosons at CDF”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **102**, 021802 (2009) [arXiv:0809.3930 [hep-ex]]
22. “The first measurement of the top quark mass at CDF II in the lepton+jets and dilepton channels simultaneously”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 arXiv:0809.4808 [hep-ex]  
 FERMILAB-PUB-08-415(2008) (Submitted to Phys.Rev.D)
23. “Search for Maximal Flavor Violating Scalars in Same-Charge Lepton Pairs in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96 \text{ TeV}$ ”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **102**, 041801 (2009) [arXiv:0809.4903 [hep-ex]]
24. “Measurement of Resonance Parameters of Orbitally Excited Narrow  $B^0$  Mesons”  
 T. Aaltonen *et al.* [CDF Collaboration]

arXiv:0809.5007 [hep-ex]

FERMILAB-PUB-08-416-E(2008) (Submitted to Phys.Rev.Lett.)

25. “**Search for Doubly Charged Higgs Bosons with Lepton-Flavor-Violating Decays involving Tau Leptons**”  
T. Aaltonen *et al.* [The CDF Collaboration]  
Phys. Rev. Lett. **101**, 121801 (2008) [arXiv:0808.2161 [hep-ex]]
26. “**First Direct Bound on the Total Width of the Top Quark in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **102**, 042001 (2009) [arXiv:0808.2167 [hep-ex]]
27. “**Search for Supersymmetry in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ -TeV Using the Trilepton Signature of Chargino-Neutralino Production**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **101**, 251801 (2008) [arXiv:0808.2446 [hep-ex]]
28. “**Measurement of the Inclusive Jet Cross Section at the Fermilab Tevatron  $p\bar{p}$  Collider Using a Cone-Based Jet Algorithm**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **78**, 052006 (2008) [arXiv:0807.2204 [hep-ex]]
29. “**Search for large extra dimensions in final states containing one photon or jet and large missing transverse energy produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$ -TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **101**, 181602 (2008) [arXiv:0807.3132 [hep-ex]]
30. “**Measurement of the fraction of  $t\bar{t}$  production via gluon-gluon fusion in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$ -TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0807.4262 [hep-ex]  
FERMILAB-PUB-08-258-E(2008) (Submitted to Phys.Rev.Lett.)
31. “**Search for the Higgs boson produced with  $Z \rightarrow \ell^+\ell^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **101**, 251803 (2008) [arXiv:0807.4493 [hep-ex]]
32. “**Measurement of the top quark mass with dilepton events selected using neuroevolution at CDF**”  
T. Aaltonen *et al.* [CDF Collaboration]  
arXiv:0807.4652 [hep-ex]  
FERMILAB-PUB-08-369-E(2008) (Submitted to Phys.Rev.Lett.)

33. “Measurement of  $b$ -jet Shapes in Inclusive Jet Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ -TeV”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 072005 (2008) [arXiv:0806.1699 [hep-ex]]
34. “Forward-Backward Asymmetry in Top Quark Production in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **101**, 202001 (2008) [arXiv:0806.2472 [hep-ex]]
35. “Search for the Flavor Changing Neutral Current Decay  $t \rightarrow Zq$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ ”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **101**, 192002 (2008) [arXiv:0805.2109 [hep-ex]]
36. “Search for Heavy, Long-Lived Neutralinos that Decay to Photons at CDF II Using Photon Timing”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 032015 (2008) [arXiv:0804.1043 [hep-ex]]
37. “Search for the Rare Decays  $B^+ \rightarrow \mu^+\mu^-K^+$ ,  $B^0 \rightarrow \mu^+\mu^-K^{*0}(892)$ , and  $B_s^0 \rightarrow \mu^+\mu^-\phi$  at CDF”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **79**, 011104 (2009) [arXiv:0804.3908 [hep-ex]]
38. “Search for Standard Model Higgs Boson Production in Association with a  $W$  Boson at CDF”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 032008 (2008) [arXiv:0803.3493 [hep-ex]]
39. “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]  
 arXiv:0803.4264 [hep-ex]  
 FERMILAB-PUB-08-071-E(2008) (Submitted to Phys.Rev.D)
40. “Search for the Higgs boson in events with missing transverse energy and  $b$  quark jets produced in proton-antiproton collisions at  $\sqrt{s} = 1.96$  TeV”
 

T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 211801 (2008) [arXiv:0802.0432 [hep-ex]]
41. “Two-Particle Momentum Correlations in Jets Produced in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”

- T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **77**, 092001 (2008) [arXiv:0802.3182 [hep-ex]]
42. “Search for Pair Production of Scalar Top Quarks Decaying to a  $\tau$  Lepton and a  $b$  Quark in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **101**, 071802 (2008) [arXiv:0802.3887 [hep-ex]]
43. “Search for New Heavy Particles Decaying to  $Z^0Z^0 \rightarrow e^+e^-e^+e^-$  in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 012008 (2008) [arXiv:0801.1129 [hep-ex]]
44. “Search for Heavy Top-like Quarks Using Lepton Plus Jets Events in 1.96 TeV  $p\bar{p}$  Collisions”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 161803 (2008) [arXiv:0801.3877 [hep-ex]]
45. “Measurement of Ratios of Fragmentation Fractions for Bottom Hadrons in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **77**, 072003 (2008) [arXiv:0801.4375 [hep-ex]]
46. “First Measurement of  $ZZ$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 201801 (2008) [arXiv:0801.4806 [hep-ex]]
47. “Observation of Exclusive Dijet Production at the Fermilab Tevatron  $p\bar{p}$  Collider”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **77**, 052004 (2008) [arXiv:0712.0604 [hep-ex]]
48. “Model-Independent and Quasi-Model-Independent Search for New Physics at CDF”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 012002 (2008) [arXiv:0712.1311 [hep-ex]]
49. “Observation of the Decay  $B_c^\pm \rightarrow J/\psi\pi^\pm$  and Measurement of the  $B_c^\pm$  Mass”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 182002 (2008) [arXiv:0712.1506 [hep-ex]]
50. “Search for  $B_s \rightarrow \mu^+\mu^-$  and  $B_d \rightarrow \mu^+\mu^-$  Decays with 2  $\text{fb}^{-1}$  of  $p\bar{p}$  Collisions”

- T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 101802 (2008) [arXiv:0712.1708 [hep-ex]]
51. “**Evidence for  $D^0\bar{D}^0$  mixing using the CDF II Detector**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 121802 (2008) [arXiv:0712.1567 [hep-ex]]
52. “**Measurement of Lifetime and Decay-Width Difference in  $B_s^0 \rightarrow J/\psi\phi$  Decays**”  
 T. Aaltonen *et al.* [CDF collaboration]  
 Phys. Rev. Lett. **100**, 121803 (2008) [arXiv:0712.2348 [hep-ex]]
53. “**First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in  $B_s^0 \rightarrow J/\psi\phi$  Decays**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 161802 (2008) [arXiv:0712.2397 [hep-ex]]
54. “**Model-Independent Global Search for New High- $p_T$  Physics at CDF**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 arXiv:0712.2534 [hep-ex]  
 FERMILAB-PUB-07-667-E(2007) (Submitted to Phys.Rev.Lett.)
55. “**First Measurement of the Fraction of Top Quark Pair Production Through Gluon-Gluon Fusion**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **78**, 111101 (2008) [arXiv:0712.3273 [hep-ex]]
56. “**First Measurement of the Production of a  $W$  Boson in Association with a Single Charm Quark in  $\bar{p}p$  Collisions at  $\sqrt{s}=1.96$  TeV**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **100**, 091803 (2008) [arXiv:0711.2901 [hep-ex]]
57. “**Search for chargino-neutralino production in  $\bar{p}p$  collisions at 1.96 TeV with high- $p_T$  leptons**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **77**, 052002 (2008) [arXiv:0711.3161 [hep-ex]]
58. “**Measurement of Inclusive Jet Cross Sections in  $Z/\gamma^*(\rightarrow ee) + \text{jets}$  Production in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
 T. Aaltonen *et al.* [CDF - Run II Collaboration]  
 Phys. Rev. Lett. **100**, 102001 (2008) [arXiv:0711.3717 [hep-ex]]
59. “**Measurement of the cross section for  $W$ -boson production in association with jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **77**, 011108 (2008) [arXiv:0711.4044 [hep-ex]]

60. “First observation of the decay  $B_s^0 \rightarrow D_s^- D_s^+$  and measurement of its branching ratio”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 021803 (2008)
61. “Cross Section Constrained Top Quark Mass Measurement from Dilepton Events at the Tevatron”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 062005 (2008) [arXiv:0710.4037 [hep-ex]]
62. “A direct Measurement of the  $W$  Boson Width in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 071801 (2008) [arXiv:0710.4112 [hep-ex]]
63. “Observation of Orbitally Excited  $B_s$  Mesons”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 082001 (2008) [arXiv:0710.4199 [hep-ex]]
64. “Search for Standard Model Higgs Bosons Produced in Association with  $W$  Bosons”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 041801 (2008) [arXiv:0710.4363 [hep-ex]]
65. “Limits on the Production of Narrow  $t\bar{t}$  Resonances in  $\bar{p}p$  Collisions at  $\sqrt{s}=1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **77**, 051102 (2008) [arXiv:0710.5335 [hep-ex]]
66. “Search for resonant  $t\bar{t}$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **100**, 231801 (2008) [arXiv:0709.0705 [hep-ex]]
67. “First Run II Measurement of the  $W$  Boson Mass”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **77**, 112001 (2008) [arXiv:0708.3642 [hep-ex]]
68. “First Measurement of the  $W$  Boson Mass in Run II of the Tevatron”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 151801 (2007) [arXiv:0707.0085 [hep-ex]]
69. “Observation and mass measurement of the baryon  $\Xi_b^-$ ”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 052002 (2007) [arXiv:0707.0589 [hep-ex]]

70. “Search for a high-mass diphoton state and limits on Randall-Sundrum gravitons at CDF”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 171801 (2007) [arXiv:0707.2294 [hep-ex]]
71. “Search for chargino-neutralino production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 191806 (2007) [arXiv:0707.2362 [hep-ex]]
72. “Search for exclusive  $\gamma\gamma$  production in hadron-hadron collisions”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 242002 (2007) [arXiv:0707.2374 [hep-ex]]
73. “Search for new physics in high mass electron-positron events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 171802 (2007) [arXiv:0707.2524 [hep-ex]]
74. “Search for Direct Pair Production of Supersymmetric Top and Supersymmetric Bottom Quarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **76**, 072010 (2007) [arXiv:0707.2567 [hep-ex]]
75. “Search for Third Generation Vector Leptoquarks in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **77**, 091105 (2008) [arXiv:0706.2832 [hep-ex]]
76. “Search for New Particles Leading to  $Z + \text{jets}$  Final States in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$ -TeV”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **76**, 072006 (2007) [arXiv:0706.3264 [hep-ex]]
77. “Measurement of the  $p\bar{p} \rightarrow t\bar{t}$  production cross section and the top quark mass at  $\sqrt{s} = 1.96$  TeV in the all-hadronic decay mode”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. D **76**, 072009 (2007) [arXiv:0706.3790 [hep-ex]]
78. “First observation of heavy baryons  $\Sigma_b$  and  $\Sigma_b^*$ ”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **99**, 202001 (2007) [arXiv:0706.3868 [hep-ex]]
79. “Measurement of the top-quark mass using missing  $E_T + \text{jets}$  events with secondary vertex  $b$  tagging at CDF II”

- T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **75**, 111103 (2007) [arXiv:0705.1594 [hep-ex]]
80. “**Limits on Anomalous Triple Gauge Couplings in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
 T. Aaltonen *et al.* [CDF Collaboration]  
 Phys. Rev. D **76**, 111103 (2007) [arXiv:0705.2247 [hep-ex]]
81. “**Polarization of  $J/\psi$  and  $\psi(2S)$  mesons produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **99**, 132001 (2007) [arXiv:0704.0638 [hep-ex]]
82. “**Search for heavy, long-lived particles that decay to photons at CDF II**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **99**, 121801 (2007) [arXiv:0704.0760 [hep-ex]]
83. “**Measurement of  $\sigma_{\chi_{c2}} \mathcal{B}(\chi_{c2} \rightarrow J/\psi \gamma) / \sigma_{\chi_{c1}} \mathcal{B}(\chi_{c1} \rightarrow J/\psi \gamma)$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **98**, 232001 (2007) [arXiv:hep-ex/0703028]
84. “**Precise measurement of the top quark mass in the lepton+jets topology at CDF II**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **99**, 182002 (2007) [arXiv:hep-ex/0703045]
85. “**Observation of  $WZ$  Production**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **98**, 161801 (2007) [arXiv:hep-ex/0702027]
86. “**Search for new physics in lepton + photon +  $X$  events with 929 pb $^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. D **75**, 112001 (2007) [arXiv:hep-ex/0702029]
87. “**First Measurement of the Ratio of Central-Electron to Forward-Electron  $W$  Partial Cross Sections in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **98**, 251801 (2007) [arXiv:hep-ex/0702037]
88. “**Measurement of  $\sigma(p\bar{p}) \rightarrow Z \times \text{Br} (Z \rightarrow \tau^+\tau^-)$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
 A. Abulencia *et al.* [CDF Collaboration]  
 Phys. Rev. D **75**, 092004 (2007)

89. “**Inclusive search for new physics with like-sign dilepton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 221803 (2007) [arXiv:hep-ex/0702051]
90. “**Search for anomalous production of multi-lepton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 131804 (2007) [arXiv:0706.4448 [hep-ex]]
91. “**Measurement of the Inclusive Jet Cross Section using the  $k_T$  algorithm in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV with the CDF II Detector**”  
A. Abulencia *et al.* [CDF - Run II Collaboration]  
Phys. Rev. D **75**, 092006 (2007) [Erratum-ibid. D **75**, 119901 (2007)] [arXiv:hep-ex/0701051]
92. “**Measurement of the Helicity Fractions of  $W$  Bosons from Top Quark Decays using Fully Reconstructed  $t\bar{t}$  Events with CDF II**”  
A. Abulencia *et al.* [CDF II Collaboration]  
Phys. Rev. D **75**, 052001 (2007) [arXiv:hep-ex/0612011]
93. “**Measurement of the  $B^+$  production cross section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **75**, 012010 (2007) [arXiv:hep-ex/0612015]
94. “**Measurement of the top-quark mass in all-hadronic decays in  $\bar{p}p$  collisions at CDF II**”  
T. Aaltonen *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 142001 (2007) [arXiv:hep-ex/0612026]
95. “**Analysis of the quantum numbers  $J^{PC}$  of the  $X(3872)$** ”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 132002 (2007) [arXiv:hep-ex/0612053]
96. “**Cross section measurements of high- $p_T$  dilepton final-state processes using a global fitting method**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **78**, 012003 (2008) [arXiv:hep-ex/0612058]
97. “**Precision measurement of the top quark mass from dilepton events at CDF II**”  
A. Abulencia *et al.* [CDF - Run II Collaboration]  
Phys. Rev. D **75**, 031105 (2007) [arXiv:hep-ex/0612060]

98. “**Measurement of the Top Quark Mass in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV using the Decay Length Technique**”  
A. Abulencia *et al.* [CDF - Run II Collaboration]  
Phys. Rev. D **75**, 071102 (2007) [[arXiv:hep-ex/0612061](#)]
99. “**Search for Exotic  $S = -2$  Baryons in  $p\bar{p}$  Collisions at  $\sqrt{s}=1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **75**, 032003 (2007) [[arXiv:hep-ex/0612066](#)]
100. “**Search for  $W'$  boson decaying to electron-neutrino pairs in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **75**, 091101 (2007) [[arXiv:hep-ex/0611022](#)]
101. “**Observation of exclusive electron positron production in hadron hadron collisions**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 112001 (2007) [[arXiv:hep-ex/0611040](#)]
102. “**Measurement of the ratios of branching fractions  $B(B_s^0 \rightarrow D_s^- \pi^+ \pi^+ \pi^-)/B(B^0 \rightarrow D^- \pi^+ \pi^+ \pi^-)$  and  $B(B_s^0 \rightarrow D_s^- \pi^+)/B(B^0 \rightarrow D^- \pi^+)$** ”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 061802 (2007) [[arXiv:hep-ex/0610045](#)]
103. “**Measurement of the  $\Lambda_b^0$  lifetime in  $\Lambda_b^0 \rightarrow J/\psi \Lambda$  in  $\bar{p}p$  collisions at  $\sqrt{s}=1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 122001 (2007) [[arXiv:hep-ex/0609021](#)]
104. “**Observation of  $B_s^0 \bar{B}_s^0$  oscillations**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 242003 (2006) [[arXiv:hep-ex/0609040](#)]
105. “**Search for V + A current in top quark decay in  $\bar{p}p$  collisions at  $\sqrt{S} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 072001 (2007) [[arXiv:hep-ex/0608062](#)]
106. “**Observation of  $B_{(s)}^0 \rightarrow K^+ K^-$  and Measurements of Branching Fractions of Charmless Two-body Decays of  $B^0$  and  $B_s^0$  Mesons in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 211802 (2006) [[arXiv:hep-ex/0607021](#)]

107. “**Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using Lepton + Jets Events with Jet Probability  $b$  tagging**”  
A. Abulencia *et al.* [CDF Collaboration and CDF - Run II Collaboration]  
Phys. Rev. D **74**, 072006 (2006) [[arXiv:hep-ex/0607035](#)]
108. “**Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV in the All Hadronic Decay Mode**”  
A. Abulencia *et al.* [CDF - Run II Collaboration]  
Phys. Rev. D **74**, 072005 (2006) [[arXiv:hep-ex/0607095](#)]
109. “**Measurement of the  $t\bar{t}$  Production Cross Section in  $p\bar{p}$  Collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 082004 (2006) [[arXiv:hep-ex/0606017](#)]
110. “**Measurement of the  $B_s^0 - \bar{B}_s^0$  Oscillation Frequency**”  
A. Abulencia *et al.* [CDF - Run II Collaboration]  
Phys. Rev. Lett. **97**, 062003 (2006) [[arXiv:hep-ex/0606027](#)]
111. “**Search for excited and exotic muons in the  $\mu\gamma$  decay channel in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 191802 (2006) [[arXiv:hep-ex/0606043](#)]
112. “**Measurement of the ratio of branching fractions  $B(D^0 \rightarrow K^+\pi^-)$  /  $B(D^0 \rightarrow K^-\pi^+)$  using the CDF II Detector**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **74**, 031109 (2006) [[arXiv:hep-ex/0605027](#)]
113. “**Search for new physics in lepton + photon +  $X$  events with  $305 \text{ pb}^{-1}$  of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 031801 (2006) [[arXiv:hep-ex/0605097](#)]
114. “**Measurement of the  $b$ -jet cross section in events with a  $Z$  boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **74**, 032008 (2006) [[arXiv:hep-ex/0605099](#)]
115. “**Top quark mass measurement from dilepton events at CDF II with the matrix-element method**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **74**, 032009 (2006) [[arXiv:hep-ex/0605118](#)]

116. “Search for a neutral Higgs boson decaying to a  $W$  boson pair in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 081802 (2006) [[arXiv:hep-ex/0605124](#)]
117. “Search for large extra dimensions in the production of jets and missing transverse energy in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 171802 (2006) [[arXiv:hep-ex/0605101](#)]
118. “Search for high-mass resonances decaying to  $e\mu$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 211802 (2006) [[arXiv:hep-ex/0603006](#)]
119. “Measurement of the  $B_c^+$  meson lifetime using  $B_c^+ \rightarrow J/\psi e^+ \nu$ ”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **97**, 012002 (2006) [[arXiv:hep-ex/0603027](#)]
120. “Measurement of the  $t\bar{t}$  production cross section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV using missing- $E_T +$  jets events with secondary vertex b tagging”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 202002 (2006) [[arXiv:hep-ex/0603043](#)]
121. “Observation of  $B_s^0 \rightarrow \psi(2S)\phi$  and measurement of ratio of branching fractions  $B(B_s^0 \rightarrow \psi(2S)\phi)/B(B_s^0 \rightarrow J/\psi\phi)$ ”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 231801 (2006) [[arXiv:hep-ex/0602005](#)]
122. “Measurement of the top quark mass using template methods on dilepton events in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$ -TeV”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 112006 (2006) [[arXiv:hep-ex/0602008](#)]
123. “Search for  $Z' \rightarrow e^+e^-$  using dielectron mass and angular distribution”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 211801 (2006) [[arXiv:hep-ex/0602045](#)]
124. “Measurement of  $\sigma(\Lambda_b^0)/\sigma(\bar{B}^0) \times BR(\Lambda_b^0 \rightarrow \Lambda_c^+\pi^-)/BR(\bar{B}^0 \rightarrow D^+\pi^-)$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **98**, 122002 (2007) [[arXiv:hep-ex/0601003](#)]

125. “**Measurement of the top quark mass with the dynamical likelihood method using lepton plus jets events with b-tags in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 092002 (2006) [[arXiv:hep-ex/0512009](#)]
126. “**Measurement of the inclusive jet cross section in  $p\bar{p}$  interactions at  $\sqrt{s} = 1.96$  TeV using a cone-based jet algorithm**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **74**, 071103 (2006) [[arXiv:hep-ex/0512020](#)]
127. “**Search for second-generation scalar leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 051102 (2006) [[arXiv:hep-ex/0512055](#)]
128. “**Search for  $H \rightarrow b\bar{b}$  produced in association with  $W$  bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 081803 (2006) [[arXiv:hep-ex/0512051](#)]
129. “**Measurement of the inclusive jet cross section using the  $k_T$  algorithm in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF II Collaboration]  
Phys. Rev. Lett. **96**, 122001 (2006) [[arXiv:hep-ex/0512062](#)]
130. “**Search for anomalous semileptonic decay of heavy flavor hadrons produced in association with a  $W$  boson at CDF II**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 051101 (2006) [[arXiv:hep-ex/0512065](#)]
131. “**Measurement of mass and width of the excited charmed meson states  $D_1^0$  and  $D_2^{*0}$** ”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 051104 (2006) [[arXiv:hep-ex/0512069](#)]
132. “**Top quark mass measurement from dilepton events at CDF II**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 152002 (2006) [[arXiv:hep-ex/0512070](#)]
133. “**A search for scalar bottom quarks from gluino decays in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 171802 (2006) [[arXiv:hep-ex/0512072](#)]

134. “**Measurement of the dipion mass spectrum in  $X(3872) \rightarrow J/\psi\pi^+\pi^-$  decays**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 102002 (2006) [[arXiv:hep-ex/0512074](#)]
135. “**Measurement of the helicity of  $W$  bosons in top-quark decays**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 111103 (2006) [[arXiv:hep-ex/0511023](#)]
136. “**Determination of the jet energy scale at the Collider Detector at Fermilab**”  
A. Bhatti *et al.*  
Nucl. Instrum. Meth. A **566**, 375 (2006) [[arXiv:hep-ex/0510047](#)]
137. “**Top quark mass measurement using the template method in the lepton + jets channel at CDF II**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 032003 (2006) [[arXiv:hep-ex/0510048](#)]
138. “**Precision top quark mass measurement in the lepton + jets topology in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 022004 (2006) [[arXiv:hep-ex/0510049](#)]
139. “**A search for  $t \rightarrow \tau\nu q$  in  $t\bar{t}$  production**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Lett. B **639**, 172 (2006) [[arXiv:hep-ex/0510063](#)]
140. “**Search for charged Higgs bosons from top quark decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 042003 (2006) [[arXiv:hep-ex/0510065](#)]
141. “**Direct search for Dirac magnetic monopoles in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 201801 (2006) [[arXiv:hep-ex/0509015](#)]
142. “**Measurement of  $b$  hadron masses in exclusive  $J/\psi$  decays with the CDF detector**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 202001 (2006) [[arXiv:hep-ex/0508022](#)]
143. “**Measurements of Inclusive  $W$  and  $Z$  Cross Sections in  $\bar{p}p$  Collisions at  $\sqrt{s} = 1.96$  TeV**”

- A. Abulencia *et al.* [CDF Collaboration]  
*J. Phys. G* **34**, 2457 (2007) [[arXiv:hep-ex/0508029](#)]
144. “**Search for  $B_s \rightarrow \mu^+ \mu^-$  and  $B_d \rightarrow \mu^+ \mu^-$  decays in  $p\bar{p}$  collisions with CDF II”**  
A. Abulencia *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **95**, 221805 (2005) [Erratum-*ibid.* **95**, 249905 (2005)] [[arXiv:hep-ex/0508036](#)]
145. “**Search for neutral MSSM Higgs bosons decaying to  $\tau$  pairs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”**  
A. Abulencia *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **96**, 011802 (2006) [[arXiv:hep-ex/0508051](#)]
146. “**Search for  $W$  and  $Z$  bosons in the reaction  $\bar{p}p \rightarrow 2\text{jets} + \gamma$  at  $\sqrt{s} = 1.8$  TeV”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. D* **73**, 012001 (2006) [[arXiv:hep-ex/0507051](#)]
147. “**Search for  $\Lambda_b \rightarrow p\pi$  and  $\Lambda_b \rightarrow pK$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. D* **72**, 051104 (2005) [[arXiv:hep-ex/0507067](#)]
148. “**Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton plus jets events with semileptonic  $B$  decays to muons”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. D* **72**, 032002 (2005) [[arXiv:hep-ex/0506001](#)]
149. “**Search for new physics using high mass  $\tau$  pairs from 1.96 TeV  $p\bar{p}$  collisions”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **95**, 131801 (2005) [[arXiv:hep-ex/0506034](#)]
150. “**A search for supersymmetric Higgs bosons in the di- $\tau$  decay mode in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. D* **72**, 072004 (2005) [[arXiv:hep-ex/0506042](#)]
151. “**Search for first-generation scalar leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”**  
D. E. Acosta *et al.* [CDF Collaboration]  
*Phys. Rev. D* **72**, 051107 (2005) [[arXiv:hep-ex/0506074](#)]

152. “**Study of jet shapes in inclusive jet production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 112002 (2005) [[arXiv:hep-ex/0505013](#)]
153. “**Evidence for the exclusive decay  $B_c^\pm \rightarrow J/\psi \pi^\pm$  and measurement of the mass of the  $B_c$  meson**”  
A. Abulencia *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **96**, 082002 (2006) [[arXiv:hep-ex/0505076](#)]
154. “**Measurement of  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  at the Collider Detector at Fermilab**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 102002 (2005) [[arXiv:hep-ex/0505091](#)]
155. “**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**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **73**, 052002 (2006) [[arXiv:hep-ex/0504020](#)]
156. “ **$K_S^0$  and  $\Lambda^0$  production studies in  $p\bar{p}$  collisions at  $\sqrt{s} = 1800$  GeV and 630 GeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **72**, 052001 (2005) [[arXiv:hep-ex/0504048](#)]
157. “**Measurement of the cross section for  $t\bar{t}$  production in  $p\bar{p}$  collisions using the kinematics of lepton + jets events**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **72**, 052003 (2005) [[arXiv:hep-ex/0504053](#)]
158. “**Search for long-lived doubly-charged Higgs bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 071801 (2005) [[arXiv:hep-ex/0503004](#)]
159. “**Search for Higgs bosons decaying into  $b\bar{b}$  and produced in association with a vector boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 051801 (2005) [[arXiv:hep-ex/0503039](#)]
160. “**Measurement of the moments of the hadronic invariant mass distribution in semileptonic  $B$  decays**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 051103 (2005) [[arXiv:hep-ex/0502003](#)]

161. “First evidence for  $B_s^0 \rightarrow \phi\phi$  decay and measurements of branching ratio and  $A_{CP}$  for  $B^+ \rightarrow \phi K^+$ ”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 031801 (2005) [[arXiv:hep-ex/0502044](#)]
162. “Search for  $ZZ$  and  $ZW$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 091105 (2005) [[arXiv:hep-ex/0501021](#)]
163. “Measurement of the forward-backward charge asymmetry from  $W \rightarrow e\nu$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 051104 (2005) [[arXiv:hep-ex/0501023](#)]
164. “Measurement of the  $W^+W^-$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using dilepton events”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **94**, 211801 (2005) [[arXiv:hep-ex/0501050](#)]
165. “A digital hadron calorimeter with resistive plate chambers for the linear collider”  
G. Drake, J. Repond, D. Underwood, A. B. Wicklund and L. Xia  
Int. J. Mod. Phys. A **20**, 3830 (2005)
166. “Measurements of  $b\bar{b}$  azimuthal production correlations in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 092001 (2005) [[arXiv:hep-ex/0412006](#)]
167. “Search for anomalous kinematics in  $t\bar{t}$  dilepton events at CDF II”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 022001 (2005) [[arXiv:hep-ex/0412042](#)]
168. “Measurement of the cross section for prompt diphoton production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **95**, 022003 (2005) [[arXiv:hep-ex/0412050](#)]
169. “Measurement of the lifetime difference between  $B_s^0$  mass eigenstates”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **94**, 101803 (2005) [[arXiv:hep-ex/0412057](#)]
170. “Measurement of the  $J/\psi$  meson and  $b$ -hadron production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1960$  GeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 032001 (2005) [[arXiv:hep-ex/0412071](#)]

171. “**Measurement of the forward-backward charge asymmetry of electron positron pairs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 052002 (2005) [arXiv:hep-ex/0411059]
172. “**Measurement of the  $W$  boson polarization in top decay at CDF at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 031101 (2005) [Erratum-ibid. D **71**, 059901 (2005)] [arXiv:hep-ex/0411070]
173. “**Measurement of  $W\gamma$  and  $Z\gamma$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF II Collaboration]  
Phys. Rev. Lett. **94**, 041803 (2005) [arXiv:hep-ex/0410008]
174. “**Search for excited and exotic electrons in the  $e\gamma$  decay channel in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **94**, 101802 (2005) [arXiv:hep-ex/0410013]
175. “**Comparison of three-jet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV to predictions from a next-to-leading order QCD calculation**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 032002 (2005) [arXiv:hep-ex/0410018]
176. “**Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using lepton + jets events with secondary vertex  $b$ -tagging**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 052003 (2005) [arXiv:hep-ex/0410041]
177. “**Search for anomalous production of diphoton events with missing transverse energy at CDF and limits on gauge-mediated supersymmetry-breaking models**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 031104 (2005) [arXiv:hep-ex/0410053]
178. “**Search for electroweak single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **71**, 012005 (2005) [arXiv:hep-ex/0410058]
179. “**Search for scalar leptoquark pairs decaying to  $\nu\bar{\nu}q\bar{q}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]

Phys. Rev. D **71**, 112001 (2005) [Erratum-ibid. D **71**, 119901 (2005)] [arXiv:hep-ex/0410076]

180. “**Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using kinematic fitting of  $b$ -tagged lepton + jet events**”  
D. E. Acosta *et al.* [CDF-II Collaboration]  
Phys. Rev. D **71**, 072005 (2005) [arXiv:hep-ex/0409029]
181. “**Measurement of partial widths and search for direct CP violation in  $D^0$  meson decays to  $K^-K^+$  and  $\pi^-\pi^+$** ”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **94**, 122001 (2005) [arXiv:hep-ex/0504006]
182. “**Measurement of charged particle multiplicities in gluon and quark jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **94**, 171802 (2005)
183. “**Search for doubly-charged Higgs bosons decaying to dileptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **93**, 221802 (2004) [arXiv:hep-ex/0406073]
184. “**First measurements of inclusive  $W$  and  $Z$  cross sections from Run II of the Tevatron collider**”  
D. E. Acosta *et al.* [CDF II Collaboration]  
Phys. Rev. Lett. **94**, 091803 (2005) [arXiv:hep-ex/0406078]
185. “**Inclusive search for anomalous production of high  $p_T$  like-sign lepton pairs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **93**, 061802 (2004) [arXiv:hep-ex/0405063]
186. “**The underlying event in hard interactions at the Tevatron  $p\bar{p}$  collider**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **70**, 072002 (2004) [arXiv:hep-ex/0404004]
187. “**Direct photon cross section with conversions at CDF**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **70**, 074008 (2004) [arXiv:hep-ex/0404022]
188. “**Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV using dilepton events**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **93**, 142001 (2004) [arXiv:hep-ex/0404036]

189. “Search for  $B_s^0 \rightarrow \mu^+ \mu^-$  and  $B_d^0 \rightarrow \mu^+ \mu^-$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **93**, 032001 (2004) [[arXiv:hep-ex/0403032](#)]
190. “Optimized search for single top quark production at the Fermilab Tevatron”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **69**, 052003 (2004)
191. “Observation of the narrow state  $X(3872) \rightarrow J/\psi \pi^+ \pi^-$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF II Collaboration]  
Phys. Rev. Lett. **93**, 072001 (2004) [[arXiv:hep-ex/0312021](#)]
192. “Inclusive double pomeron exchange at the Fermilab Tevatron  $\bar{p}p$  collider”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **93**, 141601 (2004) [[arXiv:hep-ex/0311023](#)]
193. “Combination of CDF and D0 results on  $W$  boson mass and width”  
V. M. Abazov *et al.* [CDF Collaboration and D0 Collaboration]  
Phys. Rev. D **70**, 092008 (2004) [[arXiv:hep-ex/0311039](#)]
194. “Measurement of the polar-angle distribution of leptons from  $W$  boson decay as a function of the  $W$  transverse momentum in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **70**, 032004 (2004) [[arXiv:hep-ex/0311050](#)]
195. “Measurement of the mass difference  $m(D_s^+) - m(D^+)$  at CDF II”  
D. E. Acosta *et al.* [CDF II Collaboration]  
Phys. Rev. D **68**, 072004 (2003) [[arXiv:hep-ex/0310043](#)]
196. “Measurement of the average time-integrated mixing probability of  $b$ -flavored hadrons produced at the Tevatron”  
D. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **69**, 012002 (2004) [[arXiv:hep-ex/0309030](#)]
197. “Search for the flavor-changing neutral current decay  $D^0 \rightarrow \mu^+ \mu^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **68**, 091101 (2003) [[arXiv:hep-ex/0308059](#)]

198. “Search for lepton flavor violating decays of a heavy neutral particle in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **91**, 171602 (2003) [[arXiv:hep-ex/0307012](#)]
199. “Measurement of prompt charm meson production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.96$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **91**, 241804 (2003) [[arXiv:hep-ex/0307080](#)]
200. “Search for pair production of scalar top quarks in  $R$ -parity violating decay modes in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **92**, 051803 (2004) [[arXiv:hep-ex/0305010](#)]
201. “Central pseudorapidity gaps in events with a leading antiproton at the Fermilab Tevatron  $\bar{p}p$  collider”  
D. E. Acosta *et al.* [CDF Collaboration and CDFII Collaboration]  
Phys. Rev. Lett. **91**, 011802 (2003) [[arXiv:hep-ex/0303011](#)]
202. “Search for the supersymmetric partner of the top quark in dilepton events from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **90**, 251801 (2003) [[arXiv:hep-ex/0302009](#)]
203. “Search for associated production of  $\Upsilon$  and vector boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **90**, 221803 (2003)
204. “Search for long-lived charged massive particles in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **90**, 131801 (2003) [[arXiv:hep-ex/0211064](#)]
205. “Cross section for forward  $J/\psi$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **66**, 092001 (2002)
206. “Search for a  $W'$  boson decaying to a top and bottom quark pair in 1.8 TeV  $p\bar{p}$  collisions”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **90**, 081802 (2003) [[arXiv:hep-ex/0209030](#)]

207. “Search for radiative b-hadron decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration and CDF Collaboration]  
Phys. Rev. D **66**, 112002 (2002) [arXiv:hep-ex/0208035]
208. “Branching ratio measurements of exclusive  $B^+$  decays to charmonium with the Collider Detector at Fermilab”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **66**, 052005 (2002)
209. “Measurement of the ratio of  $b$  quark production cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 630$  GeV and  $\sqrt{s} = 1800$  GeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **66**, 032002 (2002) [arXiv:hep-ex/0206019]
210. “Momentum distribution of charged particles in jets in dijet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV and comparisons to perturbative QCD predictions”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **68**, 012003 (2003)
211. “Limits on extra dimensions and new particle production in the exclusive photon and missing energy signature in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **89**, 281801 (2002) [arXiv:hep-ex/0205057]
212. “Measurement of  $B$  meson lifetimes using fully reconstructed  $B$  decays produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 092009 (2002)
213. “Search for new physics in photon lepton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **89**, 041802 (2002) [arXiv:hep-ex/0202044]
214. “Comparison of the isolated direct photon cross sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV and  $\sqrt{s} = 0.63$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 112003 (2002) [arXiv:hep-ex/0201004]
215. “Measurement of the  $B^+$  total cross section and  $B^+$  differential cross section  $d\sigma/dp_T$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 052005 (2002) [arXiv:hep-ph/0111359]

216. “**Upsilon production and polarization in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **88**, 161802 (2002)
217. “**Search for new physics in photon lepton events in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **66**, 012004 (2002) [arXiv:hep-ex/0110015]
218. “**Search for the decay  $B_s \rightarrow \mu^+ \mu^- \phi$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 111101 (2002)
219. “**Search for single top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 091102 (2002) [arXiv:hep-ex/0110067]
220. “**Soft and hard interactions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1800$  GeV and 630 GeV**”  
D. E. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 072005 (2002)
221. “**Study of the heavy flavor content of jets produced in association with  $W$  bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
D. Acosta *et al.* [CDF Collaboration]  
Phys. Rev. D **65**, 052007 (2002) [arXiv:hep-ex/0109012]
222. “**Diffractive dijet production at  $\sqrt{s} = 630$  GeV and 1800 GeV at the Fermilab Tevatron**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **88**, 151802 (2002) [arXiv:hep-ex/0109025]
223. “**Search for new heavy particles in the  $WZ^0$  final state in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **88**, 071806 (2002) [arXiv:hep-ex/0108004]
224. “**A study of  $B^0 \rightarrow J/\psi K^{(*)0} \pi^+ \pi^-$  decays with the Collider Detector at Fermilab**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **88**, 071801 (2002) [arXiv:hep-ex/0108022]
225. “**Measurement of the strong coupling constant from inclusive jet production at the Tevatron  $\bar{p}p$  collider**”

- A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **88**, 042001 (2002) [[arXiv:hep-ex/0108034](#)]
226. “**Charged jet evolution and the underlying event in  $p\bar{p}$  collisions at 1.8 TeV**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. D **65**, 092002 (2002)
227. “**Search for quark lepton compositeness and a heavy  $W'$  boson using the  $e\nu$  channel in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **87**, 231803 (2001) [[arXiv:hep-ex/0107008](#)]
228. “**Charged particle multiplicity in jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **87**, 211804 (2001)
229. “**Observation of diffractive  $J/\psi$  production at the Fermilab Tevatron**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **87**, 241802 (2001) [[arXiv:hep-ex/0107071](#)]
230. “**Search for gluinos and scalar quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV using the missing energy plus multijets signature**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **88**, 041801 (2002) [[arXiv:hep-ex/0106001](#)]
231. “**Cross section and heavy quark composition of  $\gamma + \mu$  events produced in  $p\bar{p}$  collisions**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. D **65**, 012003 (2002) [[arXiv:hep-ex/0106004](#)]
232. “**Measurement of  $d(\sigma)/dM$  and forward-backward charge asymmetry for high mass Drell-Yan  $e^+e^-$  pairs from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **87**, 131802 (2001) [[arXiv:hep-ex/0106047](#)]
233. “**Search for gluinos and squarks using like-sign dileptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **87**, 251803 (2001) [[arXiv:hep-ex/0106061](#)]
234. “**Searches for new physics in events with a photon and b-quark jet at CDF**”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. D **65**, 052006 (2002) [[arXiv:hep-ex/0106012](#)]

235. “Search for narrow diphoton resonances and for  $\gamma\gamma + W/Z$  signatures in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 092002 (2001) [arXiv:hep-ex/0105066]
236. “Double diffraction dissociation at the Fermilab Tevatron collider”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **87**, 141802 (2001) [arXiv:hep-ex/0107070]
237. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 032002 (2001) [Erratum-ibid. D **67**, 119901 (2003)] [arXiv:hep-ex/0101036]
238. “Measurement of the inclusive jet cross section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 032001 (2001) [Erratum-ibid. D **65**, 039903 (2002)] [arXiv:hep-ph/0102074]
239. “Production of  $\chi_{c1}$  and  $\chi_{c2}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **86**, 3963 (2001)
240. “Measurement of the two-jet differential cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1800$  GeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 012001 (2001) [Erratum-ibid. D **65**, 039902 (2002)] [arXiv:hep-ex/0012013]
241. “First measurement of the ratio  $B(t \rightarrow Wb)/B(t \rightarrow Wq)$  and associated limit on the CKM element  $|V_{tb}|$ ”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **86**, 3233 (2001) [arXiv:hep-ex/0012029]
242. “Search for the supersymmetric partner of the top quark in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **63**, 091101 (2001) [arXiv:hep-ex/0011004]
243. “Search for neutral supersymmetric Higgs bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **86**, 4472 (2001) [arXiv:hep-ex/0010052]

244. “**Test of enhanced leading order QCD in  $W$  boson plus jets events from 1.8 TeV  $p\bar{p}$  collisions**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **63**, 072003 (2001)
245. “**Measurement of the decay amplitudes of  $B^0 \rightarrow J/\psi K^{*0}$  and  $B_s^0 \rightarrow J/\psi \phi$  decays**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 4668 (2000) [arXiv:hep-ex/0007034]
246. “**Measurement of the  $W$  boson mass with the Collider Detector at Fermilab**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 052001 (2001) [arXiv:hep-ex/0007044]
247. “**Measurement of  $d(\sigma)/dy$  for high mass Drell-Yan  $e^+e^-$  pairs from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **63**, 011101 (2001) [arXiv:hep-ex/0006025]
248. “**Measurement of the top quark mass with the Collider Detector at Fermilab**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **63**, 032003 (2001) [arXiv:hep-ex/0006028]
249. “**Dijet production by double pomeron exchange at the Fermilab Tevatron**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 4215 (2000)
250. “**Measurement of the top quark  $p_T$  distribution**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **87**, 102001 (2001)
251. “**Search for second and third generation leptoquarks including production via technicolor interactions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 2056 (2000) [arXiv:hep-ex/0004003]
252. “**Direct measurement of the  $W$  boson width in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 3347 (2000) [arXiv:hep-ex/0004017]

253. “**Measurement of  $J/\psi$  and  $\psi(2S)$  polarization in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 2886 (2000) [[arXiv:hep-ex/0004027](#)]
254. “**Search for new particles decaying to  $t\bar{t}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 2062 (2000) [[arXiv:hep-ex/0003005](#)]
255. “**Diffractive dijets with a leading antiproton in  $\bar{p}p$  collisions at  $\sqrt{s} = 1800$  GeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 5043 (2000)
256. “**Limits on gravitino production and new processes with large missing transverse energy in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **85**, 1378 (2000) [[arXiv:hep-ex/0003026](#)]
257. “**Search for the charged Higgs boson in the decays of top quark pairs in the  $e\tau$  and  $\mu\tau$  channels at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **62**, 012004 (2000) [[arXiv:hep-ex/9912013](#)]
258. “**A measurement of the differential dijet mass cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **61**, 091101 (2000) [[arXiv:hep-ex/9912022](#)]
259. “**Observation of orbitally excited  $B$  mesons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **64**, 072002 (2001)
260. “**Search for scalar top quark production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 5273 (2000) [[arXiv:hep-ex/9912018](#)]
261. “**Production of  $\Upsilon(1S)$  mesons from  $\chi_b$  decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 2094 (2000) [[arXiv:hep-ex/9910025](#)]

262. “Search for scalar top and scalar bottom quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 5704 (2000) [[arXiv:hep-ex/9910049](#)]
263. “A measurement of  $\sin(2\beta)$  from  $B \rightarrow J/\psi K_S^0$  with the CDF detector”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **61**, 072005 (2000) [[arXiv:hep-ex/9909003](#)]
264. “Measurement of  $b$  quark fragmentation fractions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 1663 (2000) [[arXiv:hep-ex/9909011](#)]
265. “Search for a fourth-generation quark more massive than the  $Z^0$  boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 835 (2000) [[arXiv:hep-ex/9909027](#)]
266. “Measurement of the helicity of  $W$  bosons in top quark decays”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 216 (2000) [[arXiv:hep-ex/9909042](#)]
267. “Search for a  $W'$  boson via the decay mode  $W' \rightarrow \mu\nu_\mu$  in 1.8 TeV  $p\bar{p}$  collisions”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 5716 (2000) [[arXiv:hep-ex/9910004](#)]
268. “Observation of diffractive beauty production at the Fermilab Tevatron”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 232 (2000)
269. “The transverse momentum and total cross section of  $e^+e^-$  pairs in the  $Z$  boson region from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$ ”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **84**, 845 (2000) [[arXiv:hep-ex/0001021](#)]
270. “Measurement of the  $B^0\overline{B}^0$  oscillation frequency using  $\ell^-D^{*+}$  pairs and lepton flavor tags”  
A. A. Affolder *et al.* [CDF Collaboration]  
Phys. Rev. D **60**, 112004 (1999) [[arXiv:hep-ex/9907053](#)]
271. “Search for the flavor-changing neutral current decays  $B^+ \rightarrow \mu^+\mu^-K^+$  and  $B^0 \rightarrow \mu^+\mu^-K^{*0}$ ”

- A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **83**, 3378 (1999) [arXiv:hep-ex/9905004]
272. “Search for color singlet technicolor particles in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 A. A. Affolder *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **84**, 1110 (2000)
273. “Measurement of  $B^0\overline{B}^0$  flavor oscillations using jet-charge and lepton flavor tagging in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **60**, 072003 (1999) [arXiv:hep-ex/9903011]
274. “Measurement of the associated  $\gamma + \mu^\pm$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **60**, 092003 (1999) [arXiv:hep-ex/9902001]
275. “Measurement of the  $B_d^0\overline{B}_d^0$  oscillation frequency using dimuon data in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [The CDF Collaboration]  
 Phys. Rev. D **60**, 051101 (1999)
276. “Measurement of  $b$  quark fragmentation fractions in the production of strange and light  $B$  mesons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **60**, 092005 (1999)
277. “Measurement of  $b\bar{b}$  rapidity correlations in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **61**, 032001 (2000)
278. “A search for  $B_s^0\overline{B}_s^0$  oscillations using the semileptonic decay  $B_s^0 \rightarrow \phi\ell^+\nu$ ”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **82**, 3576 (1999)
279. “Search for the decays  $B_d^0 \rightarrow \mu^+\mu^-$  and  $B_s^0 \rightarrow \mu^+\mu^-$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **57**, 3811 (1998)
280. “Search for third-generation leptoquarks from technicolor models in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”

- F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **82**, 3206 (1999)
281. “Search for  $R$ -parity violating supersymmetry using like-sign dielectrons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **83**, 2133 (1999) [[arXiv:hep-ex/9908063](#)]
282. “Measurement of the top quark mass with the Collider Detector at Fermilab”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **82**, 271 (1999) [Erratum-ibid. **82**, 2808 (1999)] [[arXiv:hep-ex/9810029](#)]
283. “Search for a technicolor omega(T) particle in events with a photon and a b quark jet at CDF”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **83**, 3124 (1999) [[arXiv:hep-ex/9810031](#)]
284. “Kinematics of  $t\bar{t}$  events at CDF”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **59**, 092001 (1999)
285. “Measurement of the lepton charge asymmetry in  $W$  boson decays produced in  $p\bar{p}$  collisions”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **81**, 5754 (1998) [[arXiv:hep-ex/9809001](#)]
286. “Search for new particles decaying to  $b\bar{b}$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **82**, 2038 (1999) [[arXiv:hep-ex/9809022](#)]
287. “Measurement of  $Z^0$  and Drell-Yan production cross section using dimuons in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **59**, 052002 (1999)
288. “Measurement of the  $B_s^0$  meson lifetime using semileptonic decays”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **59**, 032004 (1999) [[arXiv:hep-ex/9808003](#)]
289. “Search for Higgs bosons produced in association with a vector boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **81**, 5748 (1998)

290. “Search for the decays  $B_s^0$ ,  $B_d^0 \rightarrow e^\pm \mu^\pm$  and Pati-Salam leptoquarks”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 5742 (1998)
291. “Events with a rapidity gap between jets in  $p\bar{p}$  collisions at  $\sqrt{s} = 630$  GeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 5278 (1998)
292. “Search for second generation leptoquarks in the dimuon plus dijet channel of  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 4806 (1998) [arXiv:hep-ex/9810024]
293. “Improved measurement of the  $B^-$  and  $\overline{B}^0$  meson lifetimes using semileptonic decays”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **58**, 092002 (1998) [arXiv:hep-ex/9806018]
294. “Measurement of the CP-violation parameter  $\sin(2\beta)$  in  $B_d^0/\overline{B}_d^0 \rightarrow J/\psi K_S^0$  decays”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 5513 (1998) [arXiv:hep-ex/9806025]
295. “Measurement of the  $B_d^0 - \overline{B}_d^0$  flavor oscillation frequency and study of same side flavor tagging of  $B$  mesons in  $p\bar{p}$  collisions”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **59**, 032001 (1999) [arXiv:hep-ex/9806026]
296. “Searches for new physics in diphoton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **59**, 092002 (1999) [arXiv:hep-ex/9806034]
297. “Search for long-lived parents of  $Z^0$  bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [The CDF Collaboration]  
Phys. Rev. D **58**, 051102 (1998) [arXiv:hep-ex/9805017]
298. “Observation of the  $B_c$  meson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 2432 (1998) [arXiv:hep-ex/9805034]

299. “Search for the rare decay  $W^\pm \rightarrow D_s^{+-} \gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **58**, 091101 (1998)
300. “Observation of  $B_c$  mesons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **58**, 112004 (1998) [arXiv:hep-ex/9804014]
301. “Measurement of the  $\sigma(W+ \geq 1\text{jet})/\sigma(W)$  cross section ratio from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaborations]  
Phys. Rev. Lett. **81**, 1367 (1998)
302. “Search for chargino neutralino associated production at the Fermilab Tevatron Collider”  
F. Abe *et al.* [CDF collaboration]  
Phys. Rev. Lett. **80**, 5275 (1998) [arXiv:hep-ex/9803015]
303. “Observation of  $B^+ \rightarrow \psi(2S)K^+$  and  $B^0 \rightarrow \psi(2S)K^{*0}(892)$  decays and measurements of  $B$  meson branching fractions into  $J/\psi$  and  $\psi(2S)$  final states”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **58**, 072001 (1998) [arXiv:hep-ex/9803013]
304. “Search for the rare decay  $W^\pm \rightarrow \pi^\pm + \gamma$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **58**, 031101 (1998)
305. “Searches for new physics in diphoton events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **81**, 1791 (1998) [arXiv:hep-ex/9801019]
306. “Observation of hadronic W decays in  $t\bar{t}$  events with the Collider Detector at Fermilab”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 5720 (1998) [arXiv:hep-ex/9711004]
307. “Measurement of the  $t\bar{t}$  production cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 2773 (1998) [arXiv:hep-ex/9710008]

308. “**Measurement of the top quark mass**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 2767 (1998) [[arXiv:hep-ex/9801014](#)]
309. “**Measurement of  $B$  hadron lifetimes using  $J/\psi$  final states at CDF**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **57**, 5382 (1998)
310. “**Measurement of the  $B^0\bar{B}^0$  oscillation frequency using  $\pi B$  meson charge-flavor correlations in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 2057 (1998) [[arXiv:hep-ex/9712004](#)]
311. “**Measurement of the top quark mass and  $t\bar{t}$  production cross section from dilepton events at the Collider Detector at Fermilab**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 2779 (1998) [[arXiv:hep-ex/9802017](#)]
312. “**Search for first generation leptoquark pair production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 4327 (1997) [[arXiv:hep-ex/9708017](#)]
313. “**Dijet production by color-singlet exchange at the Fermilab Tevatron**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 1156 (1998)
314. “**Measurement of the differential cross section for events with large total transverse energy in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **80**, 3461 (1998)
315. “**Properties of jets in  $W$  boson events from 1.8 TeV  $\bar{p}p$  collisions**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 4760 (1997) [[arXiv:hep-ex/9709016](#)]
316. “**Jet pseudorapidity distribution in direct photon events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **57**, 1359 (1998)
317. “**Search for new particles decaying into  $b\bar{b}$  and produced in association with  $W$  bosons decaying into  $e\nu$  or  $\mu\nu$  at the Tevatron**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 3819 (1997)

318. “Search for flavor-changing neutral current decays of the top quark in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **80**, 2525 (1998)
319. “Search for new gauge bosons decaying into dileptons in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **79**, 2192 (1997)
320. “Limits on quark-lepton compositeness scales from dileptons produced in 1.8 TeV  $p\bar{p}$  collisions”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **79**, 2198 (1997)
321. “Search for charged Higgs decays of the top quark using hadronic decays of the tau lepton”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **79**, 357 (1997) [[arXiv:hep-ex/9704003](#)]
322. “Measurement of double parton scattering in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **79**, 584 (1997)
323. “The  $\mu\tau$  and  $e\tau$  decays of top quark pairs produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **79**, 3585 (1997) [[arXiv:hep-ex/9704007](#)]
324. “Double parton scattering in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. D* **56**, 3811 (1997)
325. “Properties of six-jet events with large six-jet mass at the Fermilab  $p\bar{p}$  collider”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. D* **56**, 2532 (1997)
326. “Properties of photon plus two-jet events in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. D* **57**, 67 (1998)

327. “**Measurement of diffractive dijet production at the Tevatron**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 2636 (1997)
328. “**First observation of the all hadronic decay of  $t\bar{t}$  pairs**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 1992 (1997)
329. “**Search for new particles decaying to dijets at CDF**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **55**, 5263 (1997) [arXiv:hep-ex/9702004]
330. “ **$J/\psi$  and  $\psi(2S)$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 572 (1997)
331. “**Search for gluinos and squarks at the Fermilab Tevatron collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **56**, 1357 (1997)
332. “**Production of  $J/\psi$  mesons from  $\chi_c$  meson decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **79**, 578 (1997)
333. “**Observation of diffractive  $W$  boson production at the Tevatron**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **78**, 2698 (1997) [arXiv:hep-ex/9703010]
334. “**Search for third generation leptoquarks in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **78**, 2906 (1997)
335. “**Measurement of the branching fraction  $B(B_u^+ \rightarrow J/\psi\pi^+)$  and search for  $B_c^+ \rightarrow J/\psi\pi^+$** ”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 5176 (1996)
336. “**Observation of  $W^+W^-$  production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **78**, 4536 (1997)
337. “**Measurement of dijet angular distributions at CDF**”  
F. Abe *et al.* [CDF Collaboration]

Phys. Rev. Lett. **77**, 5336 (1996) [Erratum-ibid. **78**, 4307 (1997)] [arXiv:hep-ex/9609011]

338. “**Measurement of  $b\bar{b}$  production correlations,  $B^0\overline{B}^0$  mixing, and a limit on  $\epsilon_b$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **55**, 2546 (1997)
339. “**Observation of  $\Lambda_b^0 \rightarrow J/\psi \Lambda$  at the Fermilab proton antiproton collider”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **55**, 1142 (1997)
340. “**Ratios of bottom meson branching fractions involving  $J/\psi$  mesons and determination of  $b$  quark fragmentation fractions”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **54**, 6596 (1996) [arXiv:hep-ex/9607003]
341. “**Measurement of the  $\gamma + D^{*\pm}$  cross section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 5005 (1996)
342. “**Measurement of the lifetime of the  $B_s^0$  meson using the exclusive decay mode  $B_s^0 \rightarrow J/\psi \phi$ ”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 1945 (1996)
343. “**Further Properties of High-Mass Multijet Events at the Fermilab Proton-Antiproton Collider”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **54**, 4221 (1996) [arXiv:hep-ex/9605004]
344. “**Measurement of  $\Lambda_b^0$  lifetime using  $\Lambda_b^0 \rightarrow \Lambda_c^+ \ell^- \bar{\nu}$ ”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 1439 (1996)
345. “**Properties of jets in Z boson events from 1.8 TeV  $\bar{p}p$  collisions”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 448 (1996) [arXiv:hep-ex/9603003]
346. “**Forward-backward charge asymmetry of electron pairs above the  $Z^0$  pole”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 2616 (1996)

347. “**Measurement of the  $B^-$  and  $\bar{B}^0$  meson lifetimes using semileptonic decays**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 4462 (1996)
348. “**Search for flavor changing neutral current  $B$  meson decays in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 4675 (1996)
349. “**Inclusive jet cross section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **77**, 438 (1996) [arXiv:hep-ex/9601008]
350. “**Search for chargino - neutralino production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 4307 (1996) [arXiv:hep-ex/9603001]
351. “**Search for gluino and squark cascade decays at the Fermilab Tevatron Collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 2006 (1996)
352. “**Search for charged Higgs decays of the top quark using hadronic tau decays**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **54**, 735 (1996) [arXiv:hep-ex/9601003]
353. “**Reconstruction of  $B^0 \rightarrow J/\psi K_s^0$  and measurement of ratios of branching ratios involving  $B \rightarrow J/\psi K^*$** ”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 2015 (1996)
354. “**Search for the rare decay  $W^\pm \rightarrow \pi^\pm + \gamma$** ”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 2852 (1996)
355. “**Measurement of  $\sigma \cdot B(W \rightarrow e\nu)$  and  $\sigma \cdot B(Z^0 \rightarrow e^+e^-)$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **76**, 3070 (1996) [arXiv:hep-ex/9509010]
356. “**Measurement of the mass of the  $B_s^0$  meson**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **53**, 3496 (1996)

357. “**Measurement of the polarization in the decays  $B_d \rightarrow J/\psi K^{*0}$  and  $B_s \rightarrow J/\psi \phi$** ”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 3068 (1995)
358. “ **$\Upsilon$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 4358 (1995)
359. “**Measurement of correlated  $\mu - \bar{b}$  jet cross-sections in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **53**, 1051 (1996) [arXiv:hep-ex/9508017]
360. “**Study of  $t\bar{t}$  production  $p\bar{p}$  collisions using total transverse energy**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 3997 (1995) [arXiv:hep-ex/9506006]
361. “**Shower maximum trigger for electrons and photons at CDF**”  
K. Byrum *et al.*  
Nucl. Instrum. Meth. A **364**, 144 (1995)
362. “**Identification of top quarks at CDF using kinematic variables**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **52**, 2605 (1995)
363. “**Observation of top quark production in  $\bar{p}p$  collisions**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **74**, 2626 (1995) [arXiv:hep-ex/9503002]
364. “**Limits on  $WWZ$  and  $WW\gamma$  couplings from  $WW$  and  $WZ$  production in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 1017 (1995) [arXiv:hep-ex/9503009]
365. “**Measurement of the  $W$  boson mass**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **52**, 4784 (1995)
366. “**Measurement of the  $W$  boson mass**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 11 (1995) [arXiv:hep-ex/9503007]
367. “**Properties of high mass multi - jet events at the Fermilab  $p\bar{p}$  collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 608 (1995)

368. “**Measurement of the  $B$  meson differential cross-section,  $d\sigma/dp_T$ , in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 1451 (1995) [arXiv:hep-ex/9503013]
369. “**A Search for second generation leptoquarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **75**, 1012 (1995)
370. “**A Measurement of the ratio  $\sigma \times B(p\bar{p} \rightarrow W \rightarrow e\nu)/\sigma \times B(p\bar{p} \rightarrow Z^0 \rightarrow ee)$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1800$  GeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **52**, 2624 (1995)
371. “**Search for new particles decaying to dijets in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **74**, 3538 (1995) [arXiv:hep-ex/9501001]
372. “**Measurement of the  $B_s$  meson lifetime”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **74**, 4988 (1995) [arXiv:hep-ex/9412017]
373. “**Kinematic evidence for top quark pair production in  $W +$  multi - jet events in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **51**, 4623 (1995) [arXiv:hep-ex/9412009]
374. “**Search for the top quark decaying to a charged Higgs boson in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **73**, 2667 (1994)
375. “**Measurement of the  $B$  meson and  $b$  quark cross-sections at  $\sqrt{s} = 1.8$  TeV using the exclusive decay  $B^0 \rightarrow J/\psi K^{*0}(892)$ ”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 4252 (1994)
376. “**A Direct measurement of the  $W$  boson width”**  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **74**, 341 (1995)
377. “**The Charge asymmetry in  $W$  boson decays produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV”**

- F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **74**, 850 (1995) [arXiv:hep-ex/9501008]
378. “**Limits on  $Z$ -photon couplings from  $p\bar{p}$  interactions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **74**, 1941 (1995)
379. “ **$b\bar{b}$  quark pair correlations in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 FERMILAB-PUB-94-131-E(1994)  
*Unpublished - incorporated into Phys.Rev. D55, 2546 (1997)*
380. “**Measurement of  $W + \gamma$  and  $Z + \gamma$  cross-sections in the electron and muon channels in  $\sqrt{s} = 1.8$ -TeV  $p\bar{p}$  collisions**”  
 F. Abe *et al.* [CDF Collaboration]  
 FERMILAB-PUB-94-244-E(1994)
381. “**Measurement of  $W - \gamma$  couplings with CDF in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **74**, 1936 (1995)
382. “**Search for charged bosons heavier than the  $W$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1800$  GeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **74**, 2900 (1995)
383. “**Search for new gauge bosons decaying into dielectrons in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. D **51**, 949 (1995)
384. “**A Precision measurement of the prompt photon cross-section in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **73**, 2662 (1994) [Erratum-ibid. **74**, 1891 (1995)]
385. “**Observation of rapidity gaps in  $\bar{p}p$  collisions at 1.8 TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **74**, 855 (1995)
386. “**Search for radiative decays of neutralinos in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
 F. Abe *et al.* [CDF Collaboration]  
 Phys. Rev. Lett. **75**, 613 (1995)

387. “**Evidence for top quark production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **73**, 225 (1994) [arXiv:hep-ex/9405005]
388. “ **$W$  boson + jet angular distribution in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **73**, 2296 (1994)
389. “**Evidence for top quark production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 2966 (1994)
390. “**Evidence for color coherence in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 5562 (1994)
391. “**Measurement of the ratio  $\sigma B(W \rightarrow e\nu)/\sigma B(Z^0 \rightarrow e^+e^-)$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **73**, 220 (1994)
392. “**Measurement of the  $B^+$  and  $B^0$  meson lifetimes**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **72**, 3456 (1994)
393. “**Search for excited quarks in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **72**, 3004 (1994)
394. “**A Search for the top quark decaying to charged Higgs in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **72**, 1977 (1994)
395. “**Measurement of  $\bar{p}p$  single diffraction dissociation at  $\sqrt{s} = 546$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 5535 (1994)
396. “**Measurement of small angle  $\bar{p}p$  elastic scattering at  $\sqrt{s} = 546$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 5518 (1994)

397. “**Measurement of the  $\bar{p}p$  total cross-section at  $\sqrt{s} = 546$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **50**, 5550 (1994)
398. “**Observation of the decay  $B_s^0 \rightarrow J/\psi\phi$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 1685 (1993)
399. “**Measurement of Drell-Yan electron and muon pair differential cross-sections in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **49**, 1 (1994)
400. “**Measurement of bottom quark production in 1.8 TeV  $p\bar{p}$  collisions using semileptonic decay muons**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 2396 (1993)
401. “**Measurement of the average lifetime of B hadrons produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 3421 (1993)
402. “**Search for quark compositeness, axigluons and heavy particles using the dijet invariant mass spectrum observed in  $p\bar{p}$  collisions**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 2542 (1993)
403. “**Study of four jet events and evidence for double parton interactions in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **47**, 4857 (1993)
404. “**Inclusive  $\chi_c$  and  $b$  quark production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 2537 (1993)
405. “**Measurement of jet multiplicity in W events produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **70**, 4042 (1993)
406. “**Measurement of the bottom quark production cross-section using semileptonic decay electrons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”

- F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 500 (1993)
407. “**A Search for first generation leptoquarks in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **48**, 3939 (1993)
408. “**A Prompt photon cross-section measurement in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **48**, 2998 (1993)
409. “**The Center-of-mass angular distribution of prompt photons produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **71**, 679 (1993)
410. “**Measurement of the dijet mass distribution in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **48**, 998 (1993)
411. “**Measurement of the cross-section for production of two isolated prompt photons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **70**, 2232 (1993)
412. “**Comparison of jet production in  $\bar{p}p$  collisions at  $\sqrt{s} = 546$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **70**, 1376 (1993)
413. “**Search for  $\Lambda_b \rightarrow J/\psi \Lambda^0$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **47**, 2639 (1993)
414. “**Search for squarks and gluinos from  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **69**, 3439 (1992)
415. “**Inclusive  $J/\psi$ ,  $\psi(2S)$  and  $b$  quark production in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **69**, 3704 (1992)

416. “**The Dijet angular distribution in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **69**, 2896 (1992)
417. “**Limits on the production of massive stable charged particles**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **46**, 1889 (1992)
418. “**Limit on the rare decay  $W^\pm \rightarrow \gamma\pi^\pm$  in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **69**, 2160 (1992)
419. “**A Measurement of jet shapes in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **70**, 713 (1993)
420. “**A Measurement of the production and muonic decay rate of  $W$  and  $Z$  bosons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **69**, 28 (1992)
421. “**Measurement of the isolated prompt photon cross-sections in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 2734 (1992)
422. “**Measurement of  $B^0\overline{B}^0$  mixing at the Fermilab Tevatron collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **67**, 3351 (1991)
423. “**A Measurement of the  $B$  meson and  $b$  quark cross-sections at  $\sqrt{s} = 1.8$  TeV using the exclusive decay  $B^\pm \rightarrow J/\psi K^\pm$** ”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 3403 (1992)
424. “**A Limit on the top quark mass from  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **45**, 3921 (1992)
425. “**Measurement of the ratio  $\sigma B(W \rightarrow \nu_\tau)/\sigma B(W \rightarrow e\nu)$ , in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 3398 (1992)

426. “**A Search for new gauge bosons in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 1463 (1992)
427. “**A Lower limit on the top quark mass from events with two leptons in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 447 (1992)
428. “**Properties of events with large total transverse energy produced in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **45**, 2249 (1992)
429. “**Lepton asymmetry in  $W$  decays from  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 1458 (1992)
430. “**Inclusive jet cross-section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **68**, 1104 (1992)
431. “**The Topology of three jet events in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **45**, 1448 (1992)
432. “**Measurement of the  $e^+e^-$  invariant mass distribution in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **67**, 2418 (1991)
433. “**Search for  $W' \rightarrow e\nu$  and  $W' \rightarrow \mu\nu$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **67**, 2609 (1991)
434. “**Measurement of the  $Z$   $p_T$  distribution in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **67**, 2937 (1991)
435. “**A Determination of  $\sin^2 \theta$  from the forward - backward asymmetry in  $p\bar{p} \rightarrow Z^0 X \rightarrow e^+e^- X$  interactions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **67**, 1502 (1991)

436. “**Measurement of the  $W$   $p_T$  distribution in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **66**, 2951 (1991)
437. “**Measurement of QCD jet broadening in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **44**, 601 (1991)
438. “**A Measurement of  $\sigma B(W \rightarrow e\nu)$  and  $\sigma B(Z^0 \rightarrow e^+e^-)$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1800$  GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **44**, 29 (1991)
439. “**A Measurement of the  $W$  boson mass**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **65**, 2243 (1990)
440. “**A Measurement of the  $W$  boson mass in 1.8 TeV  $\bar{p}p$  collisions**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **43**, 2070 (1991)
441. “**Top quark search in the electron + jet channel in  $p\bar{p}$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **43**, 664 (1991)
442. “**Jet fragmentation properties of  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **65**, 968 (1990)
443. “**Search for new heavy quarks in electron - muon events at the Fermilab Tevatron collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **64**, 147 (1990)
444. “**Search for a light Higgs boson at the Tevatron  $p\bar{p}$  collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **41**, 1717 (1990)
445. “**Measurement of the ratio  $\sigma(W^- \rightarrow e\nu)/\sigma(Z^- \rightarrow ee)$  in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **64**, 152 (1990)

446. “**The Two jet invariant mass distribution at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **41**, 1722 (1990)
447. “**A search for the top quark in the reaction  $\bar{p}p \rightarrow e + \text{jets}$  at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **64**, 142 (1990)
448. “**A measurement of  $D^*$  production in jets from  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **64**, 348 (1990)
449. “**Pseudorapidity distributions of charged particles produced in  $\bar{p}p$  interactions at  $\sqrt{s} = 630$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **41**, 2330 (1990)
450. “**Two jet differential cross-section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **64**, 157 (1990)
451. “**Search for heavy stable particles at the Fermilab collider**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **63**, 1447 (1989)
452. “**Measurement of the mass and width of the  $Z^0$  boson at the Fermilab Tevatron**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **63**, 720 (1989)
453. “**Dijet angular distributions from  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8$  TeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **62**, 3020 (1989)
454. “ **$K_s^0$  production in  $\bar{p}p$  interactions at  $\sqrt{s} = 630$  GeV and 1800 GeV**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. D **40**, 3791 (1989)
455. “**A measurement of  $W$  boson production in 1.8 TeV  $\bar{p}p$  collisions**”  
F. Abe *et al.* [CDF Collaboration]  
Phys. Rev. Lett. **62**, 1005 (1989)

456. “**Measurement of the inclusive jet cross-section in  $\bar{p}p$  collisions at  $\sqrt{s} = 1.8 \text{ TeV}$**   
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **62**, 613 (1989)
457. “**Transverse momentum distributions of charged particles produced in  $\bar{p}p$  interactions at  $\sqrt{s} = 630 \text{ GeV}$  and  $1800 \text{ GeV}$**   
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **61**, 1819 (1988)
458. “**Limits on the masses of supersymmetric particles from  $1.8 \text{ TeV}$   $p\bar{p}$  collisions**  
 F. Abe *et al.* [CDF Collaboration]  
*Phys. Rev. Lett.* **62**, 1825 (1989)
459. “**The CDF detector: an overview**  
 F. Abe *et al.* [CDF Collaboration]  
*Nucl. Instrum. Meth. A* **271**, 387 (1988)
460. “**The CDF Central Electromagnetic Calorimeter**  
 L. Balka *et al.* [CDF Collaboration]  
*Nucl. Instrum. Meth. A* **267**, 272 (1988)
461. “**Study of the reaction  $pp \rightarrow p\pi^+n$  with polarized beam from  $1.18\text{-GeV}/c$  to  $1.98\text{-GeV}/c$**   
 A. B. Wicklund *et al.*  
*Phys. Rev. D* **35**, 2670 (1987)
462. “**Study of the reaction  $pp \rightarrow p\pi^+n$  with polarized beam from  $3 \text{ GeV}/c$  To  $12 \text{ GeV}/c$**   
 A. B. Wicklund *et al.*  
*Phys. Rev. D* **34**, 19 (1986)
463. “**Study of polarized proton diffraction dissociation in the reaction  $pp \rightarrow p\pi^+\pi^-p$  at  $11.75 \text{ GeV}/c$**   
 J. P. Finley *et al.*  
*Phys. Rev. D* **33**, 2528 (1986)
464. “**Search for  $\Lambda p$  states in the baryon exchange reaction  $pp \rightarrow \Lambda K^+p$  at  $11.75 \text{ GeV}/c$**   
 M. W. Arenton *et al.*  
*Phys. Rev. D* **28**, 657 (1983)
465. “**Analyzing power in the reaction  $pp \rightarrow d\pi^+$  for beam momenta from  $1.17 \text{ GeV}/c$  to  $1.96 \text{ GeV}/c$**

M. D. Corcoran *et al.*

Phys. Lett. B **120**, 309 (1983)

466. “Central Shower Counter Prototype For The Fermilab Collider Detector Facility”  
L. Nodulman *et al.*  
Nucl. Instrum. Meth. **204**, 351 (1983)
467. “Properties of the low mass  $\omega p$  enhancement observed in  $pp \rightarrow p\omega p$  at 11.75 GeV/c”  
M. W. Arenton, D. S. Ayres, R. Diebold, E. N. May, L. Nodulman, J. R. Sauer and A. B. Wicklund  
Phys. Rev. D **25**, 22 (1982)
468. “ $\phi$ -Meson production in the reaction  $pp \rightarrow pK^+K^-p$  at 11.75 GeV/c”  
M. W. Arenton *et al.*  
Phys. Rev. D **25**, 2241 (1982)
469. “Amplitude analysis of the  $K^+K^-$  system produced in the reactions  $\pi^-p \rightarrow K^+K^-n$  and  $\pi^+n \rightarrow K^+K^-p$  at 6 GeV/c”  
D. H. Cohen, D. S. Ayres, R. Diebold, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. D **22**, 2595 (1980)
470. “Scalar mesons in  $\pi\pi$  and  $K\bar{K}$ : results of a unitary amplitude analysis”  
A. B. Wicklund, D. S. Ayres, D. H. Cohen, R. Diebold and A. J. Pawlicki  
Phys. Rev. Lett. **45**, 1469 (1980)
471. “Search for baryonium states in the reaction  $pp \rightarrow p\bar{p}pp$  at 11.75 GeV/c”  
S. Kooijman *et al.*  
Phys. Rev. Lett. **45**, 316 (1980)
472. “A Recoil Proton Detector Using Cylindrical Multiwire Proportional Chambers With Delay Line Cathode Readouts”  
I. Ambats *et al.*  
Nucl. Instrum. Meth. **174**, 427 (1980)
473. “Polarization parameter for nucleon-nucleon elastic scattering at 11.8 GeV/c”  
S. L. Kramer, D. S. Ayres, D. H. Cohen, R. Diebold, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. D **17**, 1709 (1978)
474. “Comparative study of  $\rho^0$ ,  $\omega$ ,  $K^*(890)$ , and  $\bar{K}^*(890)$  production by charge exchange”

A. B. Wicklund, D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer and A. J. Pawlicki  
Phys. Rev. D **17**, 1197 (1978)

475. “**High statistics study of the reactions  $\pi^- p \rightarrow K^+ K^- n$  and  $\pi^+ n \rightarrow K^+ K^- p$  at 6 GeV/c”**  
A. J. Pawlicki, D. S. Ayres, D. H. Cohen, R. Diebold, S. L. Kramer and A. B. Wicklund  
Phys. Rev. D **15**, 3196 (1977)
476. “ **$\phi$ -Meson Production In The Reactions  $\pi^{+-} N \rightarrow K^+ K^- N$  at 6 GeV/c”**  
D. H. Cohen, D. S. Ayres, R. Diebold, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. Lett. **38**, 269 (1977)
477. “**Observation of asymmetry in inclusive proton production by 6 GeV/c polarized protons”**  
D. S. Ayres *et al.*  
Phys. Rev. D **15**, 1826 (1977)
478. “**Characteristics of the S-wave  $K\bar{K}$  enhancement at 1300 MeV”**  
A. J. Pawlicki, D. S. Ayres, D. H. Cohen, R. Diebold, S. L. Kramer and A. B. Wicklund  
Phys. Rev. Lett. **37**, 1666 (1976)
479. “ **$f, f'$ , and  $A_2^0$  interference in  $\pi N \rightarrow K^+ K^- N$  At 6 GeV/c”**  
A. J. Pawlicki, D. S. Ayres, D. H. Cohen, R. Diebold, S. L. Kramer and A. B. Wicklund  
Phys. Rev. Lett. **37**, 971 (1976)
480. “**Measurement of the proton-neutron elastic scattering polarization from 2 to 6 GeV/c”**  
R. Diebold, D. S. Ayres, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. Lett. **35**, 632 (1975)
481. “**The  $K\bar{K}$  system in  $\pi^- p \rightarrow K^+ K^- n$  At 6 GeV/c”**  
A. J. Pawlicki, D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer and A. B. Wicklund  
Phys. Rev. D **12**, 631 (1975)
482. “**Measurement of the polarization parameter in small angle proton proton elastic scattering At 6 GeV/c”**  
D. R. Rust *et al.*  
Phys. Lett. B **58**, 114 (1975)

483. "Interference between  $\rho$  and  $\omega$  production in  $\pi^+N \rightarrow \pi^+\pi^-N$  at 3 GeV/c, 4 GeV/c, and 6 GeV/c"  
S. L. Kramer, D. S. Ayres, R. Diebold, A. F. Greene, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. Lett. **33**, 505 (1974)
484. " $\phi$ - Meson production in  $\pi^-p$  and  $K^-p$  interactions from 3 GeV/c to 6 GeV/c"  
D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer, J. S. Levine, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. Lett. **32**, 1463 (1974)
485. "Systematic study of  $K^{+-}p$  charge exchange from 3 GeV/c to 6 GeV/c"  
R. Diebold, D. S. Ayres, A. F. Greene, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
Phys. Rev. Lett. **32**, 904 (1974)
486. "Systematic study of  $\pi^\pm p$ ,  $K^\pm p$ ,  $pp$ , and  $\bar{p}p$  forward elastic scattering from 3 to 6 GeV/c"  
I. Ambats *et al.*  
Phys. Rev. D **9**, 1179 (1974)
487. "Observation of the reaction  $\pi^-p \rightarrow \bar{p}d$  from 4 to 6 GeV/c"  
A. J. Pawlicki, D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer and A. B. Wicklund  
Phys. Rev. Lett. **31**, 665 (1973)
488. "Comparison of particle-antiparticle elastic scattering from 3 to 6 GeV/c"  
I. Ambats *et al.*  
Phys. Rev. Lett. **29**, 1415 (1972)
489. "(Ph. D. Thesis) The Meson Spectrum in  $pp \rightarrow dX$ "  
A. B. Wicklund  
UCRL-19737(1970)
490. "Search for t=1 bosons near 1 GeV in the reaction  $pp \rightarrow dX$ "  
M. A. Abolins *et al.*  
Phys. Rev. Lett. **25**, 469 (1970)
491. "On-line wire spark chamber system used as a mass spectrometer"  
R. M. Graven *et al.*  
Nucl. Instrum. Meth. **66**, 125 (1968)

# Books Edited

1. “**B physics at the Tevatron: Run II and beyond**”  
K. Anikeev *et al.*  
arXiv:hep-ph/0201071  
FERMILAB-Pub-01/197 (2001) (590 pages)  
*Workshop on B Physics at the Tevatron: Run II and Beyond, Batavia, Illinois, 23-25 Sep 1999 and 24-26 Feb 2000*
2. “**Particles And Fields 1977. Proceedings: Annual Meeting Of APS DPF, Argonne, Oct 6-8, 1977**”  
P. A. Schreiner, G. H. Thomas and A. B. Wicklund  
*AIP Conference Proceedings No.43, Particles and Fields Subseries No.13*  
New York, USA: AIP (1978) (501 pages)

# Published Conference Proceedings

1. Not listed: CDF conference papers for which I am not principal author but that I have helped to edit for my colleagues
2. “**B Physics Prospects at Hadron Colliders**”  
Int. Europhysics Conf. on HEP, PRHEP-hep2001/675, 2001, Budapest
3. “**Measurement of  $B \rightarrow J/\psi$  Modes at CDF**”  
Int. Europhysics Conf. on HEP, PRHEP-hep2001/102, 2001, Budapest
4. “**B Physics at the Tevatron**”  
Aspen 2001 Winter Meeting
5. “**Heavy Quarks: Strong Sector**”  
CIPANP, Quebec 2000
6. “**B Meson Mixing and CP Violation**”  
Physics in Collision, Duke 1999
7. “**B physics at CDF**”  
A. B. Wicklund  
ANL-HEP-CP-98-01(1997)  
*Talk given at 20th Anniversary Symposium: Twenty Beautiful Years of Bottom Physics, Chicago, IL, 29 Jun - 2 Jul 1997*
8. “**Prospects for measuring  $B_s$  mixing at CDF**”  
J. E. Skarha and A. B. Wicklund  
HEP-93-26(1993), Fermilab-CONF-93/267  
*Proceedings of the Workshop on B Physics at Hadron Accelerators, Snowmass, CO, 21 Jun - 2 Jul 1993*
9. “**B Physics at Hadron Colliders**”  
A. B. Wicklund  
*Fermilab-SSC Workshop, 1993*
10. “**Partial Wave Analysis of  $pp \rightarrow pn\pi$  and Dibaryon Resonances**”  
A. B. Wicklund  
ANL-HEP-CP-86-68  
*Lake Louise Part/Nucl.Phys.1986:609*
11. “**Performance of the Cdf Central Electromagnetic Calorimeter**”  
P. Schoessow *et al.* [CDF Collaboration]  
ANL-HEP-CP-85-01(1984)

*Presented at 1984 Meeting of the Division of Particles and Fields of the APS,  
Santa Fe, New Mexico, 31 Oct - 3 Nov 1984*

12. **“Dibaryon Resonances”**  
A. B. Wicklund (plenary)  
*In \*Brookhaven 1982, Proceedings, High Energy Spin Physics-1982\*, 168-180*
13. **“Recent Results On Scalar Mesons. (Talk)”**  
A. B. Wicklund  
*In \*Les Arcs 1981, Proceedings, New Flavors and Hadron Spectroscopy\*, 339-346*
14. **“Measurement Of Exclusive Hypercharge Exchange Reactions at 35 to 140 GeV/c”**  
E. N. May *et al.*  
ANL-HEP-CP-80-37(1980)  
*Submitted to 20th Int. Conf. on High Energy Physics, Madison, Wisc., Jul 17-23, 1980*
15. **“A Search For Narrow Resonances in  $pp \rightarrow pn\pi^+$  at 2 GeV/c”**  
J. R. Sauer *et al.*  
ANL-HEP-CP-80-26(1980)  
*Prepared for the Intl. Conf., on High Energy Physics, Madison, Wisconsin, July 17 - 23, 1980*
16. **“Properties Of The  $\omega p$  Resonance At 1.8 GeV Observed in  $pp \rightarrow pp\omega$  at 11.75 GeV/c”**  
M. W. Arenton, D. S. Ayres, R. Diebold, E. N. May, L. Nodulman, J. R. Sauer and A. B. Wicklund  
ANL-HEP-CP-80-33(1980)  
*Submitted to 20th Int. Conf. on High Energy Physics, Madison, Wis., Jul 17-23, 1980*
17. **“Measurement Of Exclusive Hypercharge Exchange Reactions At 35 To 140 Gev/c”**  
M. W. Arenton *et al.*  
ANL-HEP-PR-78-24(1978)  
*19th Int. Conf. on High Energy Physics, Tokyo, Japan, Aug 23-30, 1978*
18. **“Amplitude Analysis of the  $K^+K^-$  System Produced in the Reactions  $\pi^-p \rightarrow K^-K^+n$  and  $\pi^+n \rightarrow K^-K^+p$  at 6 GeV/c”**  
D. H. Cohen, D. S. Ayres, R. Diebold, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
ANL-HEP-PR-78-22(1978)  
*Submitted to 19th Int. Conf. on High Energy Physics, Tokyo, Japan, Aug 23-30, 1978*

19. "Conventional Meson Spectroscopy At AGS Energies"  
 A. B. Wicklund  
*In \*Brookhaven 1978, Proceedings, Workshop On The Ags Fixed-target Research Program\*, Springfield 1979, 262-284*
20. "Elastic And Inelastic Polarization Effects Observed With The Argonne Effective Mass Spectrometer"  
 D. S. Ayres, D. H. Cohen, R. Diebold, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund  
*In \*Coral Gables 1977, Proceedings, Deeper Pathways In High-energy Physics\*, New York 1977, 109-128*
21. "Inelastic Diffraction And Charge Exchange Reactions"  
 A. B. Wicklund  
 AIP Conf. Proc. **35**, 198 (1976)  
*Presented at Symposium on High-Energy Physics with Polarized Beams and Targets, Argonne, Illinois, 23-27 Aug 1976*
22. "Spin Dependence Studies With The ZGS Polarized Proton Beam"  
 A. B. Wicklund  
*In \*Tbilisi 1976, Proceedings, Int. Conference On High Energy Physics, Vol.I\*, Dubna 1976, A1.11-a1.14*
23. "Recent Results on the  $K\bar{K}$  System and on  $\rho - \omega$  Interference"  
 A. B. Wicklund  
*In \*Tbilisi 1976, Proceedings, Int. Conference On High Energy Physics, Vol.I\*, Dubna 1976, C7-c10*
24. "Observation of  $f - f'$  Interference in  $\pi^- p \rightarrow K^- K^+ n$  at 6 GeV/c"  
 A. J. Pawlicki, D. S. Ayres, R. Diebold, S. L. Kramer and A. B. Wicklund  
 ANL-HEP-CP-75-50  
*Contributed paper at Meeting of APS Div. of Particles and Fields, Seattle, Wash., Aug 27-29, 1975*
25. "Polarized Proton Beam Physics And Related Topics"  
 A. B. Wicklund  
 ANL-HEP-7466
26. "N\* Production With Polarized Beam"  
 A. B. Wicklund  
*In \*Argonne National Lab Anl-hep-cp-75-73 (Nov. 75)\*, 112-128*
27. " $\rho - \omega$  Interference in the Reaction  $\pi^- p \rightarrow \pi^- \pi^+ n$  at 3, 4, and 6 GeV/c."  
 D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund

lund

AIP Conf. Proc. **13**, 302 (1973)

28. “ $\pi\pi$  And  $K\pi$  Scattering Studies With The Argonne Effective Mass Spectrometer.”

D. S. Ayres, R. Diebold, A. F. Greene, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund

AIP Conf. Proc. **13**, 284 (1973)

29. “Meson Resonance Studies with  $K^+K^-$  and  $p\bar{p}$  Spectra”

D. S. Ayres, R. E. Diebold, A. F. Greene, S. L. Kramer, A. J. Pawlicki and A. B. Wicklund

PRINT-72-3822(1972)

*16th Int. Conf. on High-Energy Physics, Chicago, Ill. Sep 6 - 13, 1972*

# Unpublished Technical Reports

## 1. CDF SPRG Style Guide

Author: A. B. Wicklund

CDF Publication Web Page

Date: Feb. 2009 (continual revision)

## 2. HEP Division Strategic Plan

Author: A. B. Wicklund and HEP PG.

HEP Planning Group Web page.

Date: revision through 2006.

## 3. Calibration for CES and CPR in Run I

Author(s): A. B. Wicklund

CDF Note Number: CDF/DOC/ELECTRON/CDFR/8387

Date: 7/18/06

## 4. Blind selections and significance for $B_c \rightarrow J/\psi\pi^+$

Author(s): A. B. Wicklund

CDF Note Number: CDF/DOC/BOTTOM/CDFR/8130

Date: 2/27/06

## 5. Significance for $B_c \rightarrow J/\psi\pi^+$ : the short version

Author(s): Peter Bussey, Barry Wicklund

CDF Note Number: CDF/DOC/BOTTOM/CDFR/7922

Date: 11/4/05

## 6. Significance Study for $B_c \rightarrow J/\psi\pi^+$

Author(s): Barry Wicklund

CDF Note Number: CDF/DOC/BOTTOM/GROUP/7841

Date: 9/16/05

## 7. Sample Composition of the Lepton+SVT Triggers

Author(s): Matthew Jones, Denys Usynin, Joe Kroll, Barry Wicklund

CDF Note Number: CDF/ANAL/BOTTOM/CDFR/6480

Date: 6/2/03

**8. Godparent Committee Report on CDF5833**

Author(s): A. Beretvas, B. Wicklund, C. Gay

CDF Note Number: CDF/PHYS/BOTTOM/CDFR/6409

Date: 4/8/03

**9.  $B_s \rightarrow J/\psi\eta$  branching ratio limit**

Author(s): W. H. Bell A. B. Wicklund

CDF Note Number: CDF/ANAL/BOTTOM/GROUP/5663

Date: 6/21/01

**10. Proposal to replace the Central Preshower Detector and Central Crack Chambers**

Author(s): R. Blair, J. Huston, S. Kuhlmann, L. Nodulman, A. Rostovtsev, A.B. Wicklund

CDF Note Number: CDF/DOC/CALORIMETRY/CDFR/5519

Date: 12/15/00

**11. Summary of Proposals for B Physics Triggers in Run II**

Author(s): Manfred Paulini and Barry Wicklund For the B Physics group

CDF Note Number: CDF/DOC/BOTTOM/CDFR/5483

Date: 11/9/00

**12. Combined Results on b-hadron production rates, lifetimes, oscillations, and semileptonic decays**

SLAC-PUB-8492, 2000 (LEP-SLD-CDF B Working Group)

**13. Run II predictions for  $B_s \rightarrow J/\psi\eta^{(\prime)}$**

Author(s): A. B. Wicklund W. H. Bell

CDF Note Number: CDF/PHYS/BOTTOM/GROUP/5332

Date: 6/2/00

**14. Defining PAD Format and High Level Objects: Some Thoughts from the B Group**

Author(s): C. Blocker, J. Boudreau, J. Lewis, M. Paulini, S. Tkaczyk, B. WIcklund

CDF Note Number: CDF/DOC/BOTTOM/CDFR/5283

Date: 4/11/00

15. **Physics Performance of CDF II Detector with Inner Silicon Layer and TOF Detector**  
FNAL PAC 1999.
16. **Report on Beyond the Baseline Upgrades for CDF II.**
17. **Summary on  $B_c$  Decay to  $J/\psi\pi, D_s$**   
Author(s): A. B. Wicklund  
CDF Note Number: CDF/DOC/BOTTOM/CDFR/5002  
Date: 5/19/99
18. **Uncertainty on  $\sin(2\beta)$  in Run II**  
Author(s): P.Maksimovic, B.Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/4651  
Date: 6/26/98
19. **Update on  $B^-$  and  $B^0$  lifetime measurement in semileptonic decays**  
Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/4616  
Date: 5/28/98
20. **Criteria for Data Handling : CDF Physics Groups**  
Author(s): Henry Frisch, Jodi Lamoreux, Mark Lancaster, Jonathan Lewis, Simona Rolli, David Stuart, Slawek Tkaczyk, Kirsten Tollefson, Barry Wicklund, Weiming Yao  
CDF Note Number: CDF/DOC/COMPUPG/CDFR/4568  
Date: 4/28/98
21. **B Physics at CDF**  
Author(s): A. B. Wicklund  
CDF Note Number: CDF/PUB/BOTTOM/CDFR/4432  
Pub. Info: B20 Symposium, I.I.T., 1997  
Date: 12/18/97
22.  **$E_T$  Dependence of the XCES Trigger**  
Author(s): K.Byrum A.B.Wicklund  
CDF Note Number: CDF/MEMO/TRIGGER/GROUP/4424

Date: 12/11/97

23. **Trigger on  $\gamma K^*, J/\psi K^*$  for CDF Run II**  
Author(s): A. B. Wicklund  
CDF Note Number: CDF/DOC/TRIGGER/CDFR/4354  
Date: 10/8/97
24. **Some Software Tools for Using CES Data**  
Author(s): A. B. Wicklund, L. Nodulman  
CDF Note Number: CDF/MEMO/CALORIMETRY/CDFR/4036  
Date: 1/20/97
25. **Measurement of  $B^-$  and  $B^0$  lifetimes using semileptonic decays**  
Author(s): F. Ukegawa, N. S. Lockyer A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/3786  
Date: 7/23/96
26. **The Level-2 Trigger Efficiency for 9 GeV Electrons**  
Author(s): K. Byrum and A.B.Wicklund  
CDF Note Number: CDF/MEMO/ELECTRON/GROUP/3665  
Date: 4/23/96
27. **ATLAS computing technical proposal**  
A. Airapetian *et al.* [ATLAS Collaboration]  
CERN-LHCC-96-43(1996)
28. **ATLAS calorimeter performance**  
A. Airapetian *et al.* [ATLAS Collaboration]  
CERN-LHCC-96-40(1996)
29. **The CDF-II detector: Technical design report**  
R. Blair *et al.* [CDF-II Collaboration]  
FERMILAB-PUB-96-390-E(1996)
30. **ATLAS: Technical proposal for a general-purpose Proton-Proton experiment at the Large Hadron Collider at CERN**  
W. W. Armstrong *et al.* [ATLAS Collaboration]  
CERN-LHCC-94-43(1994)

31. **Further Update on  $B$  Meson Lifetimes with Semileptonic Decays**  
Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/3434  
Date: 12/6/95
32. **Measurement of the  $B^-$  and  $B^0$  Lifetimes**  
Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/PUB/BOTTOM/PUBLIC/3267  
Date: 7/14/95
33. **Comparison of CDFSIM with the Conversion X-Ray**  
Author(s): A. B. Wicklund  
CDF Note Number: CDF/DOC/ELECTRON/CDFR/3148  
Date: 5/11/95
34. **Proposal for a straw tube replacement for CDF central tracker**  
CDF Note 3350
35. **The Level 2 Trigger Efficiency for 9 GeV Electrons in Run 1A**  
Author(s): K.Byrum, A. B. Wicklund  
CDF Note Number: CDF/MEMO/ELECTRON/GROUP/3120  
Date: 4/19/95
36. **Monte Carlo Comparisons between QFL and Fusim for Electron Efficiency**  
Author(s): K.Byrum, J. Skarha, J. Tseng, F. Ukegawa, A. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/3015  
Date: 2/14/95
37. **Determination of CDF Inner Detector Materials Using Conversion Electrons**  
Author(s): A. B. Wicklund  
CDF Note Number: CDF/DOC/ELECTRON/CDFR/2899  
Date: 12/1/94
38. **New Shower Maximum Trigger for Electrons and Photons at CDF**  
Author(s): D. Amidei et al.

CDF Note Number: CDF/PUB/TRIGGER/PUBLIC/2740  
Pub. Info: Pub. Proc. 8th Meeting of DPF of APS (DPF'94), Albuquerque, NM,  
Aug. 2-6,1994. FERMILAB- CONF-94/243-E.  
Date: 7/28/94

**39. Improvement in the CDF Level 2 Electron Trigger**

Author(s): K.Byrum et al.

CDF Note Number: CDF/DOC/CDF/PUBLIC/2630

Pub. Info: 27th Int. Conf. on High Energy Phys., Glasgow, July 20-27, 1994.

Date: 5/25/94

**40. Calibration of the CTC dE/dx**

Author(s): A. B. Wicklund, K. Byrum

CDF Note Number: CDF/MEMO/TRACKING/PUBLIC/2624

Date: 5/24/94

**41. Measurement of Charged and Neutral B-Meson Lifetimes**

Author(s): F. Ukegawa, Y. Cen., A. B. Wicklund

CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2598

Date: 5/15/94

**42.  $J/\psi \rightarrow e^+e^-$  and  $B \rightarrow J/\psi K$**

Author(s): A.B. Wicklund, K. Byrum

CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2517

Date: 3/15/94

**43. Self Tagging Studies Using Semileptonic B Decays**

Author(s): A.B. Wicklund, K. Byrum

CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2514

Date: 3/14/94

**44. Prospects for Measuring  $B_s$  Mixing at CDF**

Author(s): J. Skarha, B. Wicklund, The CDF Collaboration

CDF Note Number: CDF/PUB/BOTTOM/PUBLIC/2295

Date: 10/13/93

**45. E/P Systematics from the W-electron Sample**

Author(s): K. Byrum, A. B. Wicklund

CDF Note Number: CDF/ANAL/ELECTRON/CDFR/2082  
Date: 5/20/93

**46. Lateral Shower Size for Hadrons**

Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2081  
Date: 5/20/93

**47. Separation of QCD Prompt Photon and  $\pi^0$  Production in the Conversion Sample**

Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2080  
Date: 5/20/93

**48. Identification of Conversion Electrons in the Inclusive Electron Sample**

Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/BOTTOM/CDFR/2079  
Date: 5/20/93

**49. The Inclusive Electron Binary Files in the 1992/93 Run**

Author(s): K.Byrum, A. B. Wicklund  
CDF Note Number: CDF/MEMO/ELECTRON/CDFR/2059  
Date: 4/26/93

**50. Drell-Yan Backgrounds for Inclusive Electrons**

Author(s): A. B. Wicklund, F. Ukegawa  
CDF Note Number: CDF/ANAL/TOP/CDFR/1954  
Date: 2/11/93

**51. Electron and b-Quark Transverse Momentum Spectra**

Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/TOP/CDFR/1862  
Date: 10/17/92

**52. Technical design of a detector (Solenoidal Detector) to be operated at the Superconducting Super Collider**

G. H. Trilling *et al.* [Solenoidal Detector Collaboration]  
SDC-92-201(1992)

53. **Effects Of Shower Spreading On  $Z^0 \rightarrow JJ$  Mass Resolution**  
A. B. Wicklund  
ANL-HEP-TR-91-78(1991)
54. **b- Jet Tagging Using Electrons at SDC**  
A. B. Wicklund  
ANL-HEP-TR-91-70(1991)
55. **Conversion Electrons In The SDC**  
A. B. Wicklund  
ANL-HEP-TR-91-71(1991)
56.  **$Z^0 \rightarrow$  Hadrons In SDC**  
A. B. Wicklund  
ANL-HEP-TR-91-74(1991)
57. **Central Calorimeter Configuration: A Study Report To The SDC Technical Board**  
T. B. W. Kirk and A. B. Wicklund  
SDC-91-018(1991)
58. **Design of readout electronics for a scintillating plate calorimeter**  
H. B. Crawley *et al.*  
IS-M-660
59. **Study of Electron Momentum Relative to the B Axis**  
Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/TOP/CDFR/1655  
Date: 12/27/91
60.  **$K^*(890)$  Production and Charm Electrons**  
Author(s): F. Ukegawa, A. B. Wicklund  
CDF Note Number: CDF/ANAL/TOP/CDFR/1652  
Date: 12/24/91
61. **Central Strip/Wire Maps**  
Author(s): A. B. Wicklund, F. Ukegawa  
CDF Note Number: CDF/ANAL/ELECTRON/PUBLIC/1641  
Date: 12/5/91
62. **Hadron Backgrounds in the Inclusive Electron Sample**  
Author(s): A. B. Wicklund, F. Ukegawa

CDF Note Number: CDF/ANAL/ELECTRON/PUBLIC/1640  
Date: 12/5/91

**63. EGS4 Study of CDF Preshower Response**

Author(s): A. B. Wicklund

CDF Note Number: CDF/ANAL/ELECTRON/PUBLIC/1639

Date: 12/5/91

**64. Comments on Strip Chamber Alignment**

Author(s): A. B. Wicklund

CDF Note Number: CDF/MEMO/ELECTRON/PUBLIC/1598

Date: 10/25/91

**65. Measurement of the b-Quark Production Cross Section using Electrons**

Author(s): F. Ukegawa, A. B. Wicklund

CDF Note Number: CDF/ANAL/TOP/CDFR/1556

Date: 8/27/91

**66. Electron Finding Efficiency for B Electrons**

Author(s): F. Ukegawa, A. B. Wicklund

CDF Note Number: CDF/ANAL/ELECTRON/CDFR/1516

Date: 7/18/91

**67. Report of the Neural Net Godparents**

Author(s): H. Jensen, M. Miller, A. B. Wicklund

CDF Note Number: CDF/MEMO/TRIGGER/CDFR/1505

Date: 7/8/91

**68. Fragmentation Issues in the b-Quark Cross Section Measurement**

Author(s): J. Proudfoot, F. Ukegawa, A. B. Wicklund

CDF Note Number: CDF/ANAL/TOP/CDFR/1492

Date: 6/25/91

**69. A Study of Hadron Showers for the Electron Analysis**

Author(s): F. Ukegawa, A. B. Wicklund

CDF Note Number: CDF/ANAL/CALORIMETRY/CDFR/1469

Date: 5/26/91

70.  **$K^*(890)$  and  $\phi(1020)$  Production with Electrons**  
Author(s): A. B. Wicklund, F. Ukegawa  
CDF Note Number: CDF/ANAL/ELECTRON/CDFR/1439  
Date: 5/1/91
71. **A Minimal Cut Strategy for Identification of Top in CDF**  
Author(s): R. E. Blair, J. Proudfoot, A. B. Wicklund  
CDF Note Number: CDF/ANAL/ELECTRON/CDFR/0634  
Date: 3/7/88
72. **Study of Electromagnetic Showers In the CDF Central Electromagnetic Calorimeter**  
Author(s): N. Solomey, A. B. Wicklund  
CDF Note Number: CDF/DOC/CDF/PUBLIC/0247  
Date: 6/8/87
73. **Quality Assurance testing of CDF central strip chambers**  
Authors: S. Blessing, A. B. Wicklund  
Date: 1983
74. **Hadron Calorimetry: CDF/M5 Hadron Calorimeter Test Results**  
J. Yoh and A. B. Wicklund CDF Note 115  
Date: 1982
75. **Results on  $\pi e$  Separation from Recent M5 Tests of the Barrel**  
Author(s): R. Diebold, L. Nodulman, J. Sauer, R. Wagner, A. B. Wicklund  
CDF Note Number: CDF/DOC/CDF/PUBLIC/0106  
Date: 6/8/81
76. **Chamber Response in the M5 Test of the Barrel Shower Counter Prototype**  
Author(s): L. Nodulman, A. B. Wicklund, R. Diebold, J. Sauer, R. Wagner  
CDF Note Number: CDF/DOC/CDF/PUBLIC/0103  
Date: 6/8/81
77. **Scan Results from the Full Scale Central Calorimeter Prototype Tests**  
Authors: R. Diebold, L. Nodulman, J. Sauer, R. Wagner, A. B. Wicklund

CDF Note Number 101

Date 1981

78. **Design Report of the Fermilab Collider Detector, July 1981**  
D. Ayres *et al.*  
*Batavia, Usa: Fermilab ( 1981) 331p*
79. **A study of  $\pi^+p \rightarrow K^+\Sigma^+$  and  $\pi^+p \rightarrow K^+Y^{*+}$  using the focusing spectrometer facility**  
D. Ayres, R. Diebold, A. Greene, A. Wicklund, B. Gitelman and E. Loh  
FERMILAB-PROPOSAL-0099 (1970)
80. **Focusing Spectrometer Facility**  
D. Ayers *et al.*  
FERMILAB-PROPOSAL-0096 (1970)
81. **Elastic  $\pi^+e^-$  Scattering**  
B. Gittelman, E. Loh, D. Ayres, R. Diebold, A. Greene and A. Wicklund  
FERMILAB-PROPOSAL-0101 (1970)
82. **Pauli Exclusion Principle Effects for Deuterium Reactions**  
A. B. Wicklund  
ANL EMS Technical Report (1972)
83. **Magnetic Measurement of the SCM 105 B-02 (84 XXVI 30)**  
A. B. Wicklund, E. C. Berrel, T. W. Hardek  
ZGS Accelerator Div. Technical Note (1971)
84. **Analysis of Particle Orbits in Magnetic Spectrometers**  
A. B. Wicklund  
ANL EMS Technical Note (1971)
85. **Rapid Spectrometer Analysis**  
A. B. Wicklund  
UCRL 18317 Technical Note (1968)
86. **Exchange Analysis of  $pp \rightarrow YN\bar{K}$**   
A. B. Wicklund, G. A. Smith, M. Abolins, H. Ticho, P. Schlein, W. Dunwoodie,  
E. Colton, S. Wojcicki  
UCRL 17791 Technical Note (1967)

The observation of the  $B_s$  mixing frequency is the first major discovery made at the Tevatron in Run II. The following technical notes by the CDF Mixing Group, of which I was a member, are a partial summary of work that went into the discovery. I am currently working with Joe Kroll and Manfred Paulini on a long (100 page) Phys. Rev. D paper to summarize all this.

1. "Study of  $B_s \rightarrow \ell^+ D_s^- X$  Oscillations in the Two-Track Trigger Sample",  
CDF Note 7860, 48 p., Authors: CDF  $B_s$  mixing group.
2. "Study of  $B_s \rightarrow \ell^+ D_s^- X$  Oscillations in  $B_s \rightarrow D_s 3\pi$ ",  
CDF Note 7861, Authors: CDF  $B_s$  mixing group.
3. "Scale factors for proper time uncertainties",  
CDF Note 7818, Authors: CDF  $B_s$  mixing group.
4. "Study of charged particle species produced with  $B^0$ ,  $B^+$ ,  $B_s$  Mesons",  
CDF Note 7810, Authors: CDF  $B_s$  mixing group.
5. " $B^0$  mixing and tagger performance in semileptonic  $BB$  decays",  
CDF Note 7803, Authors: CDF  $B_s$  mixing group.
6. "Measurement of  $\Delta(M_d)$  and calibration of flavor tagging",  
CDF Note 7722, Authors: CDF  $B_s$  mixing group.
7. "Public note with  $B_s$  mixing projections",  
CDF Note 7671, Authors: CDF  $B_s$  mixing group.
8. "Long term sensitivity projections for  $B_s$  mixing",  
CDF Note 7668, Authors: CDF  $B_s$  mixing group.
9. "Study of  $B_s \rightarrow \ell^+ D_s^- X$  Oscillations in the Two-Track Trigger Sample",  
CDF Note 7668, Authors: CDF  $B_s$  mixing group.
10. "Combined results from  $B_s$  mixing analyses,  
CDF Note 7555, Authors: CDF  $B_s$  mixing group.
11. "Measurement of  $B^0$  oscillations and calibration of flavor tagging in semileptonic decays"  
CDF Note 7549, Authors: CDF  $B_s$  mixing group.
12. "Blinding procedure for the measurement of  $x_s$ ",  
CDF Note 7544, Authors: CDF  $B_s$  mixing group.
13. "Study of  $B_s$  oscillations using semileptonic decays",  
CDF Note 7542, Authors: CDF  $B_s$  mixing group.

14. "Study of  $B_s$  oscillations using  $B_s \rightarrow D_s\pi$ ",  
CDF Note 7538, Authors: CDF  $B_s$  mixing group.
15. "Results of unblinded  $\Delta(M_s)$  scan using semileptonic decays",  
CDF Note 7531, Authors: CDF  $B_s$  mixing group.
16. "Measurement of  $B^0$  oscillations and calibration of flavor tagging",  
CDF Note 7511, Authors: CDF  $B_s$  mixing group.
17. "Same side kaon tagging studies",  
CDF Note 7496, Authors: CDF  $B_s$  mixing group.
18. " $\Delta(M_s)$  amplitude scans using semileptonic decays",  
CDF Note 7483, Authors: CDF  $B_s$  mixing group.
19. "Study of  $B_s$  oscillations in  $B_s \rightarrow D_s\pi$ ",  
CDF Note 7481, Authors: CDF  $B_s$  mixing group.
20. "Study of  $B_s$  oscillations in  $B_s \rightarrow \ell^+ D_s^- X$ ",  
CDF Note 7472, Authors: CDF  $B_s$  mixing group.
21. " $B^0$  mixing and tagger performance in semileptonic decays",  
CDF Note 7461, Authors: CDF  $B_s$  mixing group.
22. "Study of opposite side flavor tagging and  $\Delta(M_d)$  in semileptonic decays",  
CDF Note 7454, Authors: CDF  $B_s$  mixing group.
23. "Measurement of  $B^0$  oscillations and flavor tagging in fully reconstructed decays",  
CDF Note 7447, Authors: CDF  $B_s$  mixing group.
24. " $B$  meson lifetime determination in hadronic decays",  
CDF Note 7386, Authors: CDF  $B_s$  mixing group.

# Selected Talks

1. Annual and biannual ANL/ZGS program talks for DOE, AUA, and UC review panels 1974-2007, plus program presentations on SDC for DOE reviews 1990-1993
2. “Bs Mixing”, Argonne PHY Colloquium 2008
3. “B Physics Prospects at Hadron Colliders”, also “Measurements of  $B \rightarrow J/\psi$  Modes”, EPS 2001
4. “B Physics at the Tevatron”, Aspen 2001
5. “Heavy Flavors:Strong Sector”, CIPANP 2000
6. “B Mixing and CP Violation”, Physics in Collision 1999
7. “B Physics and CP Violation”, Argonne HEP Seminar 1999
8. “B Physics at CDF”, Twenty Years of b-Physics Symposium, IIT 1997
9. “B Physics at Hadron Machines”, Purdue Colloquium, 1996
10. “B Physics at Hadron Machines”, FNAL Workshop 1992
11. “B Physics at Hadron Colliders”, LaThuile Int. Conf. 1991
12. “Measurement of the Z Boson Mass”, Fermilab Special Colloquium 1989
13. “CDF Confronts the Standard Model”, Argonne Physics Colloquium 1989
14. “Recent Results from CDF”, Northwestern Univ. Colloquium 1990
15. “Heavy Quark Production”, U.C. seminar 1989
16. “Partial Wave Analysis of  $pp \rightarrow pn\pi$  and Dibaryon Resonances”, Lake Louise Conf. 1986
17. “Baryonium and Amplitude Analysis”, FNAL Workshop on Antimatter Physics at Low Energies, 1986
18. “Dibaryon Resonances”, ANL-HEP Seminar, 1986
19. “Dibaryon Resonances”, High Energy Spin Physics Int. Conf., Brookhaven 1982

20. "Recent Results on Scalar Mesons", Inv. Talk Moriond Int. Conf. 1981
21. "Recent Results on Scalar Mesons", XX Int. Conf. on High Energy Physics, Madison 1980
22. "Scalar Mesons", Argonne HEP Seminar 1980
23. "Scalar Mesons", Indiana Univ. Seminar 1979
24. "Conventional Meson Spectroscopy at AGS", Workshop on AGS Fixed Target Program 1978
25. " $\rho\omega$  Interference and Vector Meson Production", Seminar Argonne HEP 1976
26. Inelastic Diffraction and Charge-Exchange Studies", High Energy Physics with Polarized Beams, ANL Conf. 1976
27. "Recent Results on  $K\bar{K}$  Systems and  $\rho\omega$  Interference", XVIII Int. Conf. on High Energy Phys., Tbilisi 1976
28. "Spin Dependence Studies with the ZGS Polarized Beam", XVIII Int. Conf. on High Energy Phys., Tbilisi 1976
29. Polarized Beam Physics", Invited Talk, A.P.S. Wash. Meeting 1976
30. "Polarized Beam Physics" Seminar at BNL 1976
31. "Polarized Proton Physics", Seminar Univ. Mich. 1975
32. "Polarized Proton Beam Physics and Related Topics", XVII Int. Conf. on High Energy Phys., London 1974
33. "Amplitude Analysis of Vector Meson Production", Symposium on  $\pi\pi$  Scattering, Rutherford 1974
34. "Spin Dependence in Inelastic Scattering", Summer Studies on High Energy Physics with polarized Beams, ANL 1974
35. "Heavy Meson Spectroscopy", Symposium on Heavy Hadron Spectroscopy, ANL 1974
36. "Physics with Polarized Beams and Targets", U. Notre Dame Seminar, 1974
37. "Vector Meson Production", Colloquium Ohio State Univ. 1974
38. "Polarized Proton Physics", A.P.S Chicago Meeting 1974

39. "Physics with Polarized Beams and Targets", I.I.T Seminar, 1974
40. "Polarized Proton Physics", Seminar Univ. Illinois Champaign-Urbana 1975
41. "Amplitude Analysis of  $\rho$ -Meson Production", Topical Conf. on  $\pi\pi$  Scattering, Tallahassee 1973
42. "Recent Results from the EMS", M.S.U. Colloquium 1972
43. "Crossover Zeroes in Elastic Scattering", Seminar ANL HEP 1972
44. "Crossover Zeroes in Elastic Scattering", Seminar Iowa State Univ. 1972
45. "Recent Results on Hadronic Reactions below 10 GeV" (Review talk) XVI Int. Conf. on High Energy Phys., 1972
46. Unlisted are many invited talks given for CDF and SDC collaboration meetings

# Workshops and Symposia

1. 6th Int. Conf. on Hyperons, Charm, and Beauty Hadrons, IIT, 2004; (Organizing Committee, Session Chair)
2. Local Org. Comm. Aspen Winter Workshop 2004
3. Organizing Committee and Editor, “B Physics at the Tevatron: Run II and Beyond 1998-2001”
4. B Physics and CP Violation (BCP99), Taiwan 1999 (Organizing Committee)
5. B Physics and CP Violation (BCP97), Hawaii 1997 (Organizing Committee)
6. B Physics and CP Violation, Nagoya 1995 (Org. Comm.)
7. APS Division of Particles and Fields, Fermilab 1992 (Org. Comm.)
8. Physics in Collision (1988, 1989 Advisory Committee)
9.  $\bar{p}p$  Options for the Supercollider, Argonne and University of Chicago Workshop, Chicago 1984 (organizing committee)
10. Experimental Meson Spectroscopy, BNL 1983 (Org. Comm., Session Chair)
11. Experimental Meson Spectroscopy, BNL 1980 (Prog. Advisory Comm.)
12. APS Division of Particles and Fields Annual Meeting, Argonne 1977 (Chair)
13. Argonne Symposium on Applications of High Energy Physics 1973