

CHEP

McGill Centre for High Energy Physics Publications 2007

- Experimental High Energy Physics Groups:
 - [The ATLAS Collaboration](#)
 - [The BaBar Collaboration](#)
 - [The CDF Collaboration](#)
 - [The D0 Collaboration](#)
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- [Theoretical High Energy Physics Group](#)
- [Nuclear Physics Group](#)
- [Astro-Particle Physics Group](#)

3 DOCUMENTS for the CHEP ATLAS Group in 2007:

1) The ATLAS Data Acquisition and Trigger: Concept, design and status.

[K. Kordas *et al.*](#) 2007. 5pp.

Prepared for 10th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD06), Sienna, Italy, 1-5 Oct 2006.

Published in **Nucl.Phys.Proc.Suppl.172:178-182,2007.**

2) The ATLAS trigger: Commissioning with cosmic rays.

[Maris Abolins *et al.*](#) CERN-ATL-COM-DAQ-2007-029, CERN-ATL-DAQ-CONF-2007-024, 2007.

12pp.

Published in **J.Phys.Conf.Ser.119:022014,2008.**

3) Construction, assembly and testing of the ATLAS hadronic end-cap calorimeter.

[D.M. Gingrich *et al.*](#) ATL-LARG-PUB-2007-009, ATL-COM-LARG-2007-006, Apr 2007. 44pp.

Published in **JINST 2:P05005,2007.**

83 DOCUMENTS for the CHEP BaBar Group in 2007:

1) A Measurement of the branching fractions of exclusive anti-B \rightarrow D^(*)(π)l- anti- ν (l) decays in events with a fully reconstructed B meson.

By BABAR Collaboration ([B. Aubert *et al.*](#)). SLAC-PUB-13056, BABAR-PUB-07-071, Dec 2007.

8pp.

Published in **Phys.Rev.Lett.100:151802,2008.**

e-Print: **arXiv:0712.3503** [hep-ex]

2) Measurement of the Decay $B^- \rightarrow D^{*0} e^- \text{ anti-}\nu(e)$.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13035, BABAR-PUB-07-070, Dec 2007. 8pp.

Published in **Phys.Rev.Lett.100:231803,2008.**

e-Print: **arXiv:0712.3493** [hep-ex]

3) Time-dependent Dalitz plot analysis of $B^0 \rightarrow D^+ K^0 \text{ Pi}^\pm$ decays.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13050, Dec 2007. 8pp.

Published in **Phys.Rev.D77:071102,2008.**

e-Print: **arXiv:0712.3469** [hep-ex]

4) Measurement of D^0 - anti- D^0 mixing using the ratio of lifetimes for the decays $D^0 \rightarrow K^- \text{ pi}^+$, $K^- K^+$, and $\text{pi}^- \text{ pi}^+$.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13047, BABAR-PUB-07-068, Dec 2007. 8pp.

Published in **Phys.Rev.D78:011105,2008.**

e-Print: **arXiv:0712.2249** [hep-ex]

5) Search for decays of $B^0 \rightarrow$ mesons into $e^+ e^-$, $\mu^+ \mu^-$, and $e^+ \mu^-$ final states.

By BaBar Collaboration ([B. Aubert et al.](#)). BABAR-PUB-07-057, SLAC-PUB-13040, Dec 2007. 8pp.

Published in **Phys.Rev.D77:032007,2008.**

e-Print: **arXiv:0712.1516** [hep-ex]

6) Measurement of the $B \rightarrow X(s) \gamma$ branching fraction and photon energy spectrum using the recoil method.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13021, BABAR-PUB-07-067, Nov 2007. 9pp.

Published in **Phys.Rev.D77:051103,2008.**

e-Print: **arXiv:0711.4889** [hep-ex]

7) Dalitz Plot Analysis of the Decay $B^0(\text{anti-}B^0) \rightarrow K^+ \text{ pi}^- \text{ pi}^0$.

By BaBar Collaboration ([B. Aubert et al.](#)). BABAR-PUB-07-066, SLAC-PUB-13023, Nov 2007. 30pp.

Submitted to Phys.Rev.D

e-Print: **arXiv:0711.4417** [hep-ex]

8) Search for CPT and Lorentz violation in B^0 - anti- B^0 oscillations with dilepton events.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13010, BABAR-PUB-07-063, Nov 2007. 7pp.

Published in **Phys.Rev.Lett.100:131802,2008.**

e-Print: **arXiv:0711.2713** [hep-ex]

9) Observation of $Y(3940) \rightarrow J/\psi \omega$ in $B \rightarrow J/\psi \omega K$ at BABAR.

By BaBar Collaboration ([B. Aubert et al.](#)). SLAC-PUB-13000, Nov 2007. 7pp.

Submitted to Phys.Rev.Lett.

e-Print: **arXiv:0711.2047** [hep-ex]

10) Search for lepton flavor violating decays $\tau^+ \rightarrow l^+ \omega$ ($l = e, \mu$).

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12971, BABAR-PUB-07-064, Nov 2007. 7pp.

Published in **Phys.Rev.Lett.100:071802,2008.**

e-Print: **arXiv:0711.0980** [hep-ex]

11) A Study of anti-B \rightarrow Xi(c) anti-Lambda(c) and anti-B \rightarrow anti-Lambda+(c) anti-Lambda(c) anti-K decays at BABAR.

By BaBar Collaboration (B. Aubert *et al.*). BABAR-PUB-07-053, SLAC-PUB-12938, Oct 2007. 8pp.
Published in *Phys.Rev.D77:031101,2008*.
e-Print: [arXiv:0710.5775](https://arxiv.org/abs/0710.5775) [hep-ex]

12) A Study of Excited Charm-Strange Baryons with Evidence for new Baryons Xi(c)(3055)+ and Xi(c)(3123)+.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-042, SLAC-PUB-12935, Oct 2007. 14pp.
Published in *Phys.Rev.D77:012002,2008*.
e-Print: [arXiv:0710.5763](https://arxiv.org/abs/0710.5763) [hep-ex]

13) Measurements of $e^+ e^- \rightarrow K^+ K^- \eta$, $K^+ K^- \pi^0$ and $K^0(s) K^+ \pi^-$ cross- sections using initial state radiation events.

By BaBar Collaboration (B. Aubert *et al.*). SLAC-PUB-12968, BABAR-PUB-07-052, Oct 2007. 27pp.
Published in *Phys.Rev.D77:092002,2008*.
e-Print: [arXiv:0710.4451](https://arxiv.org/abs/0710.4451) [hep-ex]

14) Observation of $B^+ \rightarrow a(1)^+(1260) K^0$ and $B^0 \rightarrow a(1)^-(1260) K^+$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-056, SLAC-PUB-12826, Sep 2007. 7pp.
Published in *Phys.Rev.Lett.100:051803,2008*.
e-Print: [arXiv:0709.4165](https://arxiv.org/abs/0709.4165) [hep-ex]

15) Search for CP violation in the decays $D^0 \rightarrow K^- K^+$ and $D^0 \rightarrow \pi^- \pi^+$.

By BaBar Collaboration (B. Aubert *et al.*). SLAC-PUB-12756, BABAR-PUB-07-058, Sep 2007. 7pp.
Published in *Phys.Rev.Lett.100:061803,2008*.
e-Print: [arXiv:0709.2715](https://arxiv.org/abs/0709.2715) [hep-ex]

16) Study of $e^+ e^- \rightarrow \Lambda \text{ anti-}\Lambda$, $\Lambda \text{ anti-}\Sigma^0$, $\Sigma^0 \text{ anti-}\Sigma^0$ using initial state radiation with BABAR.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12806, BABAR-PUB-07-054, Sep 2007. 24pp.
Published in *Phys.Rev.D76:092006,2007*.
e-Print: [arXiv:0709.1988](https://arxiv.org/abs/0709.1988) [hep-ex]

17) Observation of the semileptonic decays $B \rightarrow D^* \tau^- \text{ anti-}\nu(\tau)$ and evidence for $B \rightarrow D \tau^- \text{ anti-}\nu(\tau)$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-062, SLAC-PUB-12807, Sep 2007. 7pp.
Published in *Phys.Rev.Lett.100:021801,2008*.
e-Print: [arXiv:0709.1698](https://arxiv.org/abs/0709.1698) [hep-ex]

18) Measurements of Partial Branching Fractions for anti-B $\rightarrow X(u) l \text{ anti-}\nu$ and Determination of $|V(ub)|$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-051, SLAC-PUB-12713, Aug 2007. 7pp.
Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.
Published in *Phys.Rev.Lett.100:171802,2008*.
e-Print: [arXiv:0708.3702](https://arxiv.org/abs/0708.3702) [hep-ex]

19) Improved limits on the lepton-flavor violating decays $\tau^- \rightarrow l^- l^+ l^-$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12766, BABAR-PUB-07-59, Aug 2007.
7pp.
Published in **Phys.Rev.Lett.99:251803,2007**.
e-Print: **arXiv:0708.3650** [hep-ex]

20) Measurements of the Branching Fractions of $B^0 \rightarrow K^{*0} K^+ K^-$, $B^0 \rightarrow K^{*0} \pi^+ K^-$, $B^0 \rightarrow K^{*0} K^+ \pi^-$, and $B^0 \rightarrow K^{*0} \pi^+ \pi^-$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-055, SLAC-PUB-12746, Aug 2007.
8pp.
Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07),
Daegu, Korea, 13-18 Aug 2007.
Published in **Phys.Rev.D76:071104,2007**.
e-Print: **arXiv:0708.2543** [hep-ex]

21) The $e^+ e^- \rightarrow 2(\pi^+ \pi^-) \pi^0$, $2(\pi^+ \pi^-) \eta$, $K^+ K^- \pi^+ \pi^- \pi^0$ and $K^+ K^- \pi^+ \pi^- \eta$ Cross Sections Measured with Initial-State Radiation.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-045, SLAC-PUB-12753, Aug 2007.
30pp.
Published in **Phys.Rev.D76:092005,2007**, **Erratum-ibid.D77:119902,2008**.
e-Print: **arXiv:0708.2461** [hep-ex]

22) A Search for $B^+ \rightarrow \tau^+ \nu$ with Hadronic B tags.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-046, SLAC-PUB-12736, Aug 2007.
8pp.
Published in **Phys.Rev.D77:011107,2008**.
e-Print: **arXiv:0708.2260** [hep-ex]

23) Observation of $B^0 \rightarrow K^{*0} \text{anti-}K^{*0}$ and search for $B^0 \rightarrow K^{*0} K^{*0}$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-050, SLAC-PUB-12724, Aug 2007.
7pp.
Published in **Phys.Rev.Lett.100:081801,2008**.
e-Print: **arXiv:0708.2248** [hep-ex]

24) Time-dependent Dalitz Plot Analysis of $B^0 \rightarrow K^0(s) \pi^+ \pi^-$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-2007-07-010, SLAC-PUB-12729, Aug 2007. 29pp.
Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07),
Daegu, Korea, 13-18 Aug 2007.
e-Print: **arXiv:0708.2097** [hep-ex]

25) Measurement of the $B^0 \rightarrow X^{-(u)} l^+ \nu(l)$ decays near the kinematic endpoint of the lepton spectrum and search for violation of isospin symmetry.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-008, SLAC-PUB-12740, Aug 2007.
17pp.
Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07),
Daegu, Korea, 13-18 Aug 2007.
e-Print: **arXiv:0708.1753** [hep-ex]

26) Measurement of the Branching Fractions of Exclusive anti-B $\rightarrow D/D^*/D^{(*)} \pi^- l^- \text{anti-}\nu(l)$ Decays in Events Tagged by a Fully Reconstructed B Meson.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-009, SLAC-PUB-12735, Aug 2007.
19pp.
Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07),
Daegu, Korea, 13-18 Aug 2007.
e-Print: **arXiv:0708.1738** [hep-ex]

27) Evidence for $b \rightarrow d$ gamma Transitions From a Sum of Exclusive Final States in the Hadronic Final State Mass Range $1.0\text{-GeV}/c^2 < M(X(d)) < 1.8\text{-GeV}/c^2$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-007, SLAC-PUB-12731, Aug 2007. 16pp.

Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.

e-Print: [arXiv:0708.1652](#) [hep-ex]

28) Study of Resonances in Exclusive B Decays to anti-D(*) D(*) K.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-049, SLAC-PUB-12728, Aug 2007. 8pp.

Published in *Phys.Rev.D77:011102,2008*.

e-Print: [arXiv:0708.1565](#) [hep-ex]

29) Improved Measurement of Time-Dependent CP Asymmetries and the CP-Odd Fraction in the Decay $B^0 \rightarrow D^{*+} D^{*-}$.

By BaBar Collaboration (B. Aubert *et al.*). BABAR-PUB-07-048, SLAC-PUB-12725, Aug 2007. 8pp.

Published in *Phys.Rev.D76:111102,2007*.

e-Print: [arXiv:0708.1549](#) [hep-ex]

30) Measurement of $\cos 2\beta$ in $B^0 \rightarrow D^{(*)} h^0$ Decays with a Time-Dependent Dalitz Plot Analysis of $D \rightarrow K^0(S) \pi^+ \pi^-$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-047, SLAC-PUB-12727, Aug 2007. 7pp.

Published in *Phys.Rev.Lett.99:231802,2007*.

e-Print: [arXiv:0708.1544](#) [hep-ex]

31) Measurement of branching fraction and CP asymmetries in $B^- \rightarrow D^0(\text{CP}) K^-$ decays.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-006, SLAC-PUB-12696, Aug 2007. 17pp.

Contributed to 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.

e-Print: [arXiv:0708.1534](#) [hep-ex]

32) Time-Dependent Analysis of the Decay $B^0 \rightarrow \rho^0 \rho^0$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-012, SLAC-PUB-12734, Aug 2007. 20pp.

Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.

e-Print: [arXiv:0708.1630](#) [hep-ex]

33) Measurement of The Time-Dependent CP Asymmetry in $B^0 \rightarrow K^*0 \gamma$ Decays.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-CONF-07-005, SLAC-PUB-12732, Aug 2007. 14pp.

Contributed to 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.

e-Print: [arXiv:0708.1614](#) [hep-ex]

34) Search for the decay $B^+ \rightarrow K^+ \tau^+ \mu^-$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-040, SLAC-PUB-12709, Aug 2007. 7pp.

Published in *Phys.Rev.Lett.99:201801,2007*.

e-Print: [arXiv:0708.1303](#) [hep-ex]

35) Search for the rare charmless hadronic decay $B^+ \rightarrow a^0 \pi^0$.

By The BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-035, SLAC-PUB-12705, Aug 2007. 8pp.

Presented at 23rd International Symposium on Lepton-Photon Interactions at High Energy (LP07), Daegu, Korea, 13-18 Aug 2007.

Published in **Phys.Rev.D77:011101,2008**, **Erratum-ibid.D77:039903,2008**, **Erratum-ibid.D77:019904,2008**.

e-Print: **arXiv:0708.0963** [hep-ex]

36) Observation of the Decay $B^+ \rightarrow K^+ K^- \pi^+$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-041, SLAC-PUB-12702, Aug 2007. 7pp.

Contributed to International Europhysics Conference on High Energy Physics (EPS-HEP2007), Manchester, England, 19-25 Jul 2007.

Published in **Phys.Rev.Lett.99:221801,2007**.

e-Print: **arXiv:0708.0376** [hep-ex]

37) Search for $B \rightarrow u$ transitions in $B \rightarrow [K^+ \pi^- \pi^0](D) K^-$.

By The BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-030, SLAC-PUB-12694, Aug 2007. 4pp.

Published in **Phys.Rev.D76:111101,2007**.

e-Print: **arXiv:0708.0182** [hep-ex]

38) Evidence for charged B meson decays to $a_{1(1260)} \pi^0$ and $a_0(1260) \pi^{\pm}$.

By BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-034, SLAC-PUB-12699, Aug 2007. 7pp.

Published in **Phys.Rev.Lett.99:261801,2007**.

e-Print: **arXiv:0708.0050** [hep-ex]

39) Observation of B-meson decays to $b(1) \pi$ and $b(1) K$.

By The BABAR Collaboration (B. Aubert *et al.*). BABAR-PUB-07-037, SLAC-PUB-12700, Jul 2007. 7pp.

Published in **Phys.Rev.Lett.99:241803,2007**.

e-Print: **arXiv:0707.4561** [hep-ex]

40) Exclusive branching fraction measurements of semileptonic tau decays into three charged hadrons, $\tau^- \rightarrow \pi^- \pi^0 \nu(\tau)$ and $\tau^- \rightarrow \pi^- K^- \nu(\tau)$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12686, BABAR-PUB-06-060, Jul 2007. 7pp.

Published in **Phys.Rev.Lett.100:011801,2008**.

e-Print: **arXiv:0707.2981** [hep-ex]

41) Measurement of the CP-violating asymmetries in $B^0 \rightarrow K^0(S) \pi^0$ and of the branching fraction of $B^0 \rightarrow K^0 \pi^0$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12676, BABAR-PUB-07-038, Jul 2007. 8pp.

Published in **Phys.Rev.D77:012003,2008**.

e-Print: **arXiv:0707.2980** [hep-ex]

42) Measurement of the $\tau^- \rightarrow K^- \pi^0 \nu(\tau)$ branching fraction.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12681, BABAR-PUB-07-036, Jul 2007. 7pp.

Published in **Phys.Rev.D76:051104,2007**.

e-Print: **arXiv:0707.2922** [hep-ex]

43) A Study of B-meson decays to $\eta(c) K^*$ and $\eta(c) \gamma K^*$.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12665, BABAR-CONF-07-001, Jul 2007. 8pp.
 Contributed to International Europhysics Conference on High Energy Physics (EPS-HEP2007), Manchester, England, 19-25 Jul 2007.
 e-Print: [arXiv:0707.2843](#) [hep-ex]

44) Study of $B^0 \rightarrow \pi^0 \pi^0$, $B^{+-} \rightarrow \pi^{+-} \pi^0$, and $B^{+-} \rightarrow K^{+-} \pi^0$ Decays, and Isospin Analysis of $B \rightarrow \pi \pi$ Decays.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12682, BABAR-PUB-07-039, Jul 2007. 8pp.
 Published in *Phys.Rev.D76:091102,2007*.
 e-Print: [arXiv:0707.2798](#) [hep-ex]

45) Measurement of the semileptonic decays $B \rightarrow D \tau^- \text{anti-}\nu(\tau)$ and $B \rightarrow D^* \tau^- \text{anti-}\nu(\tau)$.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12675, BABAR-CONF-07-004, Jul 2007. 7pp.
 Presented at International Europhysics Conference on High Energy Physics (EPS-HEP2007), Manchester, England, 19-25 Jul 2007.
 e-Print: [arXiv:0707.2758](#) [hep-ex]

46) Measurement of moments of the hadronic-mass and energy spectrum in inclusive semileptonic $\text{anti-}B \rightarrow X(c) l^- \text{anti-}\nu$ decays.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12668, BABAR-CONF-07-003, Jul 2007. 21pp.
 Contributed to International Europhysics Conference on High Energy Physics (EPS-HEP2007), Manchester, England, 19-25 Jul 2007.
 e-Print: [arXiv:0707.2670](#) [hep-ex]

47) Measurement of the decay $B^- \rightarrow D^{*0} e^- \text{anti-}\nu$.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12667, BABAR-CONF-07-002, Jul 2007. 8pp.
 Contributed to International Europhysics Conference on High Energy Physics (EPS-HEP2007), Manchester, England, 19-25 Jul 2007.
 e-Print: [arXiv:0707.2655](#) [hep-ex]

48) Evidence for the $B^0 \rightarrow p \text{anti-}p K^{*0}$ and $B^+ \rightarrow \eta(c) K^{*+}$ decays and Study of the Decay Dynamics of B Meson Decays into $p \text{anti-}p h$ final states.

By BaBar Collaboration ([B. Aubert et al.](#)). BABAR-PUB-07-031, SLAC-PUB-12661, Jul 2007. 16pp.
 Published in *Phys.Rev.D76:092004,2007*.
 e-Print: [arXiv:0707.1648](#) [hep-ex]

49) Search for Prompt Production of $\chi(c)$ and $X(3872)$ in e^+e^- Annihilations.

By BABAR Collaboration ([B. Aubert et al.](#)). BABAR-PUB-07-028, SLAC-PUB-12660, Jul 2007. 8pp.
 Published in *Phys.Rev.D76:071102,2007*.
 e-Print: [arXiv:0707.1633](#) [hep-ex]

50) Observation of tree-level B decays with $s \text{anti-}s$ production from gluon radiation.

By BABAR Collaboration ([B. Aubert et al.](#)). BABAR-PUB-07-025, SLAC-PUB-12690, Jul 2007. 7pp.
 Published in *Phys.Rev.Lett.100:171803,2008*.
 e-Print: [arXiv:0707.1043](#) [hep-ex]

51) Branching fraction and CP-violation charge asymmetry measurements for B-meson decays

to eta K⁺-, eta pi⁺-, eta-prime K, eta-prime pi⁺-, omega K, and omega pi⁺-.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12630, BABAR-PUB-07-032, Jun 2007. 8pp.
Published in **Phys.Rev.D76:031103,2007**.
e-Print: [arXiv:0706.3893](#) [hep-ex]

52) Measurements of CP-violating asymmetries in the decay B⁰ --> K⁺ K⁻ K⁰.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12625, BABAR-PUB-07-029, Jun 2007. 7pp.
Published in **Phys.Rev.Lett.99:161802,2007**.
e-Print: [arXiv:0706.3885](#) [hep-ex]

53) Search for the decays B⁰ ---> e⁺ e⁻ gamma and B⁰ ---> mu⁺ mu⁻ gamma.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12594, BABAR-PUB-07-033, Jun 2007. 7pp.
Published in **Phys.Rev.D77:011104,2008**.
e-Print: [arXiv:0706.2870](#) [hep-ex]

54) Search for the decay B⁺ ---> anti-K⁰(892) K⁺.

By The BaBar Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12546, BABAR-PUB-07-004, Jun 2007. 8pp.
Published in **Phys.Rev.D76:071103,2007**.
e-Print: [arXiv:0706.1059](#) [hep-ex]

55) Determination of the form-factors for the decay B⁰ ---> D^{*-} l⁺ nu(l) and of the CKM matrix element |V(cb)|.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12511, BABAR-PUB-07-008, May 2007. 18pp.
Published in **Phys.Rev.D77:032002,2008**.
e-Print: [arXiv:0705.4008](#) [hep-ex]

56) SuperB: A High-Luminosity Asymmetric e⁺ e⁻ Super Flavor Factory. Conceptual Design Report.

[M. Bona et al.](#) SLAC-R-856, INFN-AE-07-02, LAL-07-15, May 18, 2007. 480pp. [Temporary entry](#)
e-Print: [arXiv:0709.0451](#) [hep-ex]

57) A Study of B⁰ ---> rho⁺ rho⁻ Decays and Constraints on the CKM Angle alpha.

By Babar Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12498, BABAR-PUB-07-14, May 2007. 25pp.
Published in **Phys.Rev.D76:052007,2007**.
e-Print: [arXiv:0705.2157](#) [hep-ex]

58) A Search for B⁺ ---> tau⁺ nu.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12516, BABAR-PUB-07-007, May 2007. 11pp.
Published in **Phys.Rev.D76:052002,2007**.
e-Print: [arXiv:0705.1820](#) [hep-ex]

59) Measurement of CP-violating asymmetries in B⁰ ---> D^{(*)+}- D⁻⁺.

By BaBar Collaboration ([Bernard Aubert et al.](#)). SLAC-PUB-12506, BABAR-PUB-07-24, May 2007. 7pp.
Published in **Phys.Rev.Lett.99:071801,2007**.
e-Print: [arXiv:0705.1190](#) [hep-ex]

60) Search for D⁰ - anti-D⁰ mixing using doubly flavor tagged semileptonic decay modes.

By BABAR Collaboration ([Bernard Aubert et al.](#)). SLAC-PUB-12494, May 2007. 13pp.

Published in **Phys.Rev.D76:014018,2007**.

e-Print: **arXiv:0705.0704** [hep-ex]

61) Search for $B^0 \rightarrow \phi(K^+ \pi^-)$ decays with large $K^+ \pi^-$ invariant mass.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12461, BABAR-PUB-00-023, May 2007. 8pp.

Published in **Phys.Rev.D76:051103,2007**.

e-Print: **arXiv:0705.0398** [hep-ex]

62) Amplitude analysis of the decay $D^0 \rightarrow K^- K^+ \pi^0$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12416, BABAR-PUB-07-022, Apr 2007. 8pp.

Published in **Phys.Rev.D76:011102,2007**.

e-Print: **arXiv:0704.3593** [hep-ex]

63) Measurement of the absolute branching fraction of $D^0 \rightarrow K^- \pi^+$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12463, BABAR-PUB-07-011, Apr 2007. 7pp.

Published in **Phys.Rev.Lett.100:051802,2008**.

e-Print: **arXiv:0704.2080** [hep-ex]

64) Search for the radiative leptonic decay $B^+ \rightarrow \gamma l^+ \nu(l)$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12442, BABAR-PUB-06-067, Apr 2007. 7pp.

Submitted to Phys.Rev.Lett.

e-Print: **arXiv:0704.1478** [hep-ex]

65) Branching fraction and charge asymmetry measurements in $B \rightarrow J/\psi \pi^+ \pi^-$ decays.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12441, BABAR-PUB-07-017, Apr 2007. 8pp.

Published in **Phys.Rev.D76:031101,2007**.

e-Print: **arXiv:0704.1266** [hep-ex]

66) Measurement of the hadronic form-factor in $D^0 \rightarrow K^- e^+ \nu(e)$ 1.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12417, BABAR-PUB-07-015, Apr 2007. 21pp.

Presented at 42nd Rencontres de Moriond on QCD and Hadronic Interactions, La Thuile, Italy, 17-24 Mar 2007.

Submitted to Phys.Rev.D

e-Print: **arXiv:0704.0020** [hep-ex]

67) Measurement of decay amplitudes of $B \rightarrow J/\psi K^*$, $\psi(2S) K^*$, and $\chi(c1) K^*$ with an angular analysis.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12430, BABAR-PUB-07-009, Apr 2007. 7pp.

Published in **Phys.Rev.D76:031102,2007**.

e-Print: **arXiv:0704.0522** [hep-ex]

68) The $e^+ e^- \rightarrow K^+ K^- \pi^+ \pi^-$, $K^+ K^- \pi^0 \pi^0$ and $K^+ K^- K^+ K^-$ cross-sections measured with initial-state radiation.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12435, BABAR-PUB-07-021, Apr 2007. 32pp.

Published in **Phys.Rev.D76:012008,2007**.

e-Print: **arXiv:0704.0630** [hep-ex]

69) Search for Neutral B-Meson Decays to $a_0 \pi$, $a_0 K$, $\eta \rho^0$, and ηf_0 .

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12413, BABAR-PUB-07-020, Mar 2007. 8pp.
Published in **Phys.Rev.D75:111102,2007**.
e-Print: **hep-ex/0703038**

70) Measurement of CP Violation Parameters with a Dalitz Plot Analysis of $B^{+-} \rightarrow D(\pi^+ \pi^- \pi^0) K^{+-}$.

By BaBar Collaboration (B. Aubert *et al.*). SLAC-PUB-12410, BABAR-PUB-06-073, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:251801,2007**.
e-Print: **hep-ex/0703037**

71) Production and decay of Ω_c^0 .

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12398, BABAR-PUB-07-010, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:062001,2007**.
e-Print: **hep-ex/0703030**

72) Measurement of the relative branching fractions of anti-B $\rightarrow D/D^*/D^{} l^- \text{ anti-}\nu(l)$ decays in events with a fully reconstructed B meson.**

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12393, BABAR-PUB-07-012, Mar 2007. 8pp.
Published in **Phys.Rev.D76:051101,2007**.
e-Print: **hep-ex/0703027**

73) Improved measurement of CP violation in neutral B decays to $c \text{ anti-}c s$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12391, BABAR-PUB-07-18, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:171803,2007**.
e-Print: **hep-ex/0703021**

74) Evidence for D^0 -anti- D^0 Mixing.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12385, BABAR-PUB-07-019, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.98:211802,2007**.
e-Print: **hep-ex/0703020**

75) Measurement of the time-dependent CP asymmetry in $B^0 \rightarrow D^{(*)}(CP) h^0$ decays.

By BABAR Collaboration (B. Aubert *et al.*). HEPEX-0703019, BABAR-PUB-07-006, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:081801,2007**.
e-Print: **hep-ex/0703019**

76) Search for the rare decay $B \rightarrow \pi l^+ l^-$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12389, BABAR-PUB-07-002, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:051801,2007**.
e-Print: **hep-ex/0703018**

77) Observation of CP violation in $B^0 \rightarrow K^+ \pi^-$ and $B^0 \rightarrow \pi^+ \pi^-$.

By BABAR Collaboration (B. Aubert *et al.*). SLAC-PUB-12387, BABAR-PUB-07-013, Mar 2007. 7pp.
Published in **Phys.Rev.Lett.99:021603,2007**.
e-Print: **hep-ex/0703016**

78) Measurement of CP-violating asymmetries in $B^0 \rightarrow (\rho \pi)^0$ using a time-dependent Dalitz plot analysis.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12377, BABAR-PUB-07003, Mar 2007. 23pp.

Published in **Phys.Rev.D76:012004,2007.**

e-Print: [hep-ex/0703008](#)

79) Measurement of CP Asymmetries in $B^0 \rightarrow K^0(S) K^0(S) K^0(S)$ Decays.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12366, BABAR-PUB-07-001, Feb 2007. 7pp.

Published in **Phys.Rev.D76:091101,2007.**

e-Print: [hep-ex/0702046](#)

80) Observation of B^+ to $\rho^+ K^0$ and Measurement of its Branching Fraction and Charge Asymmetry.

By BaBar Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12210, BABAR-PUB-07-005, Feb 2007. 7pp.

Published in **Phys.Rev.D76:011103,2007.**

e-Print: [hep-ex/0702043](#)

81) Measurement of CP Asymmetry in $B^0 \rightarrow K(s) \pi^0 \pi^0$ Decays.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12335, BABAR-PUB-06-068, Feb 2007. 8pp.

Published in **Phys.Rev.D76:071101,2007.**

e-Print: [hep-ex/0702010](#)

82) Measurement of the $B^{+-} \rightarrow \rho^{+-} \pi^0$ Branching Fraction and Direct CP Asymmetry.

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12285, BABAR-PUB-06-059, Jan 2007. 8pp.

Published in **Phys.Rev.D75:091103,2007.**

e-Print: [hep-ex/0701035](#)

83) Evidence of a broad structure at an invariant mass of 4.32- GeV/c2 in the reaction $e^+ e^- \rightarrow \pi^+ \pi^- \psi(2S)$ measured at BaBar.**

By BABAR Collaboration ([B. Aubert et al.](#)). SLAC-PUB-12155, BABAR-PUB-06-38, May 2007. 7pp.

Contributed to 33rd International Conference on High Energy Physics (ICHEP 06), Moscow, Russia, 26 Jul - 2 Aug 2006.

Published in **Phys.Rev.Lett.98:212001,2007.**

e-Print: [hep-ex/0610057](#)

43 DOCUMENTS for the CHEP CDF Group in 2007:**1) First measurement of the fraction of top quark pair production through gluon-gluon fusion.**

By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-665-E, Dec 2007. 6pp.

Submitted to Phys.Rev.Lett.

e-Print: [arXiv:0712.3273](#) [hep-ex]

2) Model-Independent Global Search for New High-p(T) Physics at CDF.

By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-667-E, Dec 2007. 7pp.

Submitted to Phys.Rev.Lett.

e-Print: [arXiv:0712.2534](#) [hep-ex]

3) First Flavor-Tagged Determination of Bounds on Mixing-Induced CP Violation in $B^0(s) \rightarrow J/\psi \phi$ Decays.

By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-663-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.100:161802,2008**.
e-Print: [arXiv:0712.2397](#) [hep-ex]

4) Measurement of lifetime and decay-width difference in $B_0(s) \rightarrow J/\psi \phi$ decays.
By CDF collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-655-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.100:121803,2008**.
e-Print: [arXiv:0712.2348](#) [hep-ex]

5) Evidence for D_0 - anti- D_0 mixing using the CDF II Detector.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-648-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.100:121802,2008**.
e-Print: [arXiv:0712.1567](#) [hep-ex]

6) Search for $B_0(s) \rightarrow \mu^+ \mu^-$ and $B_0(d) \rightarrow \mu^+ \mu^-$ decays with 2fb^{-1} of p anti-p collisions.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-649-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.100:101802,2008**.
e-Print: [arXiv:0712.1708](#) [hep-ex]

7) Observation of the Decay $B_{(c)}^+ \rightarrow J/\psi \pi^+$ and Measurement of the $B_{(c)}^+$ Mass.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-644-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.100:182002,2008**.
e-Print: [arXiv:0712.1506](#) [hep-ex]

8) Model-Independent and Quasi-Model-Independent Search for New Physics at CDF.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-657-E, Dec 2007. 39pp.
Submitted to Phys.Rev.D
e-Print: [arXiv:0712.1311](#) [hep-ex]

9) Observation of Exclusive Dijet Production at the Fermilab Tevatron p-pbar Collider.
By CDF Run II Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-647-E, Dec 2007. 27pp.
Published in **Phys.Rev.D77:052004,2008**.
e-Print: [arXiv:0712.0604](#) [hep-ex]

10) Measurement of the cross section for W-boson production in association with jets in ppbar collisions at $s^{1/2} = 1.96$ -TeV.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-622-E, Nov 2007.
Published in **Phys.Rev.D77:011108,2008**.
e-Print: [arXiv:0711.4044](#) [hep-ex]

11) Measurement of inclusive jet cross-sections in $Z/\gamma^*(\rightarrow e^+ e^-) + \text{jets}$ production in p anti-p collisions at $s^{1/2} = 1.96$ -TeV.
By CDF - Run II Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-627-E, Nov 2007. 7pp.
Published in **Phys.Rev.Lett.100:102001,2008**.
e-Print: [arXiv:0711.3717](#) [hep-ex]

12) Search for chargino-neutralino production in p anti-p collisions at 1.96-TeV with high-p(T) leptons.
By CDF Collaboration ([T. Aaltonen et al.](#)). FERMILAB-PUB-07-613-E, Nov 2007. 22pp.
Published in **Phys.Rev.D77:052002,2008**.
e-Print: [arXiv:0711.3161](#) [hep-ex]

13) First measurement of the production of a W boson in association with a single charm quark in p anti-p collisions at $s^{1/2} = 1.96$ -TeV.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-616-E, Nov 2007. 7pp.
Published in **Phys.Rev.Lett.100:091803,2008**.
e-Print: **arXiv:0711.2901** [hep-ex]

14) Limits on the production of narrow t anti-t resonances in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-576-E, Oct 2007. 7pp.
Published in **Phys.Rev.D77:051102,2008**.
e-Print: **arXiv:0710.5335** [hep-ex]

15) Search for Standard Model Higgs Bosons Produced in Association with W Bosons.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-567-E, Oct 2007. 17pp.
Published in **Phys.Rev.Lett.100:041801,2008**.
e-Print: **arXiv:0710.4363** [hep-ex]

16) Observation of orbitally excited B(s) mesons.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-565-E, Oct 2007. 7pp.
Published in **Phys.Rev.Lett.100:082001,2008**.
e-Print: **arXiv:0710.4199** [hep-ex]

17) A Direct measurement of the W boson width in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-563-E, Oct 2007. 7pp.
Published in **Phys.Rev.Lett.100:071801,2008**.
e-Print: **arXiv:0710.4112** [hep-ex]

18) Cross-section constrained top quark mass measurement from dilepton events at the Tevatron.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-558-E, Oct 2007. 7pp.
Published in **Phys.Rev.Lett.100:062005,2008**.
e-Print: **arXiv:0710.4037** [hep-ex]

19) Search for resonant t anti-t production in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-455-E, Sep 2007. 7pp.
Published in **Phys.Rev.Lett.100:231801,2008**.
e-Print: **arXiv:0709.0705** [hep-ex]

20) First Run II Measurement of the W Boson Mass.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-444-E, Aug 2007. 54pp.
Published in **Phys.Rev.D77:112001,2008**.
e-Print: **arXiv:0708.3642** [hep-ex]

21) Search for Direct Pair Production of Supersymmetric Top and Supersymmetric Bottom Quarks in p anti-p Collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-383-E, Jul 2007. 12pp.
Published in **Phys.Rev.D76:072010,2007**.
e-Print: **arXiv:0707.2567** [hep-ex]

22) Search for new physics in high mass electron-positron events in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-367-E, Jul 2007. 7pp.
Published in **Phys.Rev.Lett.99:171802,2007**.
e-Print: **arXiv:0707.2524** [hep-ex]

23) Search for exclusive gamma gamma production in hadron-hadron collisions.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-384-E, Jul 2007. 7pp.

Published in **Phys.Rev.Lett.99:242002,2007.**

e-Print: **arXiv:0707.2374** [hep-ex]

24) Search for chargino-neutralino production in p anti-p collisions at $s^{}(1/2) = 1.96\text{-TeV}$.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-365-E, Jul 2007. 8pp.

Published in **Phys.Rev.Lett.99:191806,2007.**

e-Print: **arXiv:0707.2362** [hep-ex]

25) Search for a high-mass diphoton state and limits on Randall-Sundrum gravitons at CDF.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-376-E, Jul 2007. 10pp.

Published in **Phys.Rev.Lett.99:171801,2007.**

e-Print: **arXiv:0707.2294** [hep-ex]

26) Observation and mass measurement of the baryon $\Xi(b)$.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-336-E, Jul 2007. 8pp.

Published in **Phys.Rev.Lett.99:052002,2007.**

e-Print: **arXiv:0707.0589** [hep-ex]

27) First measurement of the W boson mass in run II of the Tevatron.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-357-E, Jul 2007. 7pp.

Published in **Phys.Rev.Lett.99:151801,2007.**

e-Print: **arXiv:0707.0085** [hep-ex]

28) First observation of heavy baryons $\Sigma(b)$ and $\Sigma(b)^*$.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-318-E, Jun 2007. 8pp.

Published in **Phys.Rev.Lett.99:202001,2007.**

e-Print: **arXiv:0706.3868** [hep-ex]

29) Measurement of the p anti-p \rightarrow t anti-t production cross-section and the top quark mass at $s^{}(1/2) = 1.96\text{-TeV}$ in the all-hadronic decay mode.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-316-E, Jun 2007. 29pp.

Published in **Phys.Rev.D76:072009,2007.**

e-Print: **arXiv:0706.3790** [hep-ex]

30) Search for New Particles Leading to Z+jets Final States in p anti-p Collisions at $s^{}(1/2) = 1.96\text{-TeV}$.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-261-E, Jun 2007. 23pp.

Published in **Phys.Rev.D76:072006,2007.**

e-Print: **arXiv:0706.3264** [hep-ex]

31) Search for Third Generation Vector Leptoquarks in p anti-p Collisions at $s^{}(1/2) = 1.96\text{-TeV}$.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-207-E, Jun 2007. 7pp.

Submitted to Phys.Rev.Lett.

e-Print: **arXiv:0706.2832** [hep-ex]

32) Limits on Anomalous Triple Gauge Couplings in p anti-p Collisions at $s^{}(1/2) = 1.96\text{-TeV}$.**

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-123-E, May 2007. 7pp.

Published in **Phys.Rev.D76:111103,2007.**

e-Print: **arXiv:0705.2247** [hep-ex]

33) Measurement of the top-quark mass using missing $E(T)$ + jets events with secondary vertex b-tagging at CDF II.

By CDF Collaboration (T. Aaltonen *et al.*). FERMILAB-PUB-07-191-E, May 2007. 8pp.

Published in **Phys.Rev.D75:111103,2007.**

e-Print: [arXiv:0705.1594](#) [hep-ex]

34) Search for heavy, long-lived particles that decay to photons at CDF II.

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-075-E, Apr 2007. 7pp.
Published in *Phys.Rev.Lett.***99:121801,2007**.

e-Print: [arXiv:0704.0760](#) [hep-ex]

35) Polarization of J / psi and psi(2S) mesons produced in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-072-E, Apr 2007. 7pp.
Published in *Phys.Rev.Lett.***99:132001,2007**.

e-Print: [arXiv:0704.0638](#) [hep-ex]

36) Precise measurement of the top quark mass in the lepton+jets topology at CDF II.

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-070-E, Mar 2007. 7pp.
Published in *Phys.Rev.Lett.***99:182002,2007**.

e-Print: [hep-ex/0703045](#)

37) Measurement of $\sigma(\chi(c2)B(\chi(c2)) \rightarrow J / \psi \gamma) / \sigma(\chi(c1)B(\chi(c1)) \rightarrow J / \psi \gamma)$ in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Run II Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-066-E, Mar 2007. 7pp.
Published in *Phys.Rev.Lett.***98:232001,2007**.

e-Print: [hep-ex/0703028](#)

38) Inclusive search for new physics with like-sign dilepton events in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-053-E, Feb 2007. 8pp.
Published in *Phys.Rev.Lett.***98:221803,2007**.

e-Print: [hep-ex/0702051](#)

39) First Measurement of the Ratio of Central-Electron to Forward-Electron W Partial Cross Sections in p anti-p Collisions at $s^{}(1/2) = 1.96$ TeV.**

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-046-E, Feb 2007. 8pp.
Published in *Phys.Rev.Lett.***98:251801,2007**.

e-Print: [hep-ex/0702037](#)

40) Search for new physics in lepton + photon + X events with 929 pb^{(-1)} of p anti-p collisions at $s^{**}(1/2) = 1.96$ -TeV.**

By CDF Run II Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-043-E, Feb 2007. 15pp.
Published in *Phys.Rev.D***75:112001,2007**.

e-Print: [hep-ex/0702029](#)

41) Observation of WZ Production.

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-07-042-E, Feb 2007. 7pp.
Published in *Phys.Rev.Lett.***98:161801,2007**.

e-Print: [hep-ex/0702027](#)

42) Measurement of the Inclusive Jet Cross Section using the k(T) algorithm in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV with the CDF II Detector.**

By CDF - Run II ([A. Abulencia et al.](#)). FERMILAB-PUB-07-026-E, Jan 2007. 26pp.
Published in *Phys.Rev.D***75:092006,2007**, *Erratum-ibid.D75:119901,2007*.

e-Print: [hep-ex/0701051](#)

43) Search for anomalous production of multi-lepton events in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By CDF Collaboration ([A. Abulencia et al.](#)). FERMILAB-PUB-06-482-E, Jan 2007. 7pp.
Published in **Phys.Rev.Lett.****98:131804,2007**.
e-Print: [arXiv:0706.4448](#) [hep-ex]

35 DOCUMENTS for the CHEP D0 Group in 2007:

1) Search for squarks and gluinos in events with jets and missing transverse energy using 2.1 fb⁻¹ of p anti-p collision data at s^{1/2} = 1.96- TeV.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-668-E, Dec 2007. 9pp.
Published in **Phys.Lett.B660:449-457,2008**.
e-Print: [arXiv:0712.3805](#) [hep-ex]

2) Measurement of the B0(s) semileptonic branching ratio to an orbitally excited D^{*(s)} state, Br(B0(s) ---> D-(s1)(2536) mu+ nu X).

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-659-E, Dec 2007. 7pp.
Submitted to Phys.Rev.Lett.
e-Print: [arXiv:0712.3789](#) [hep-ex]

3) ILC Reference Design Report Volume 4 - Detectors.

By ILC Collaboration ([Ties Behnke, \(Ed.\) et al.](#)). Dec 2007.
e-Print: [arXiv:0712.2356](#) [physics.ins-det]

4) ILC Reference Design Report: ILC Global Design Effort and World Wide Study.

By ILC Collaboration ([James Brau, \(Ed.\) et al.](#)). Aug 2007. 147pp.
e-Print: [arXiv:0712.1950](#) [physics.acc-ph]

5) First measurement of the forward-backward charge asymmetry in top quark pair production.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-645-E, Dec 2007. 8pp.
Published in **Phys.Rev.Lett.****100:142002,2008**.
e-Print: [arXiv:0712.0851](#) [hep-ex]

6) Measurement of the shape of the boson transverse momentum distribution in p anti-p ---> Z / gamma* ---> e+ e- + X events produced at s^{1/2} = 1.96-TeV.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-642-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.****100:102002,2008**.
e-Print: [arXiv:0712.0803](#) [hep-ex]

7) Search for ZZ and Z gamma* production in p anti-p collisions at s^{1/2} = 1.96-TeV and limits on anomalous ZZZ and ZZ gamma* couplings.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-641-E, Dec 2007. 7pp.
Published in **Phys.Rev.Lett.****100:131801,2008**.
e-Print: [arXiv:0712.0599](#) [hep-ex]

8) A Combined search for the standard model Higgs boson at s^{1/2} = 1.96-TeV.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-640-E, Dec 2007. 15pp.
Published in **Phys.Lett.B663:26-36,2008**.
e-Print: [arXiv:0712.0598](#) [hep-ex]

9) Search for Scalar Neutrino Superpartners in e + mu Final States in proton anti-proton Collisions at s^{1/2} = 1.96-TeV.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-620-E, Nov 2007. 6pp.
Published in **Phys.Rev.Lett.****100:241803,2008**.
e-Print: [arXiv:0711.3207](#) [hep-ex]

10) Model-independent measurement of the W boson helicity in top quark decays at D0.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-588-E, Nov 2007. 8pp.
Published in **Phys.Rev.Lett.100:062004,2008**.
e-Print: [arXiv:0711.0032](#) [hep-ex]

11) Observation and properties of the orbitally excited B*(s2) meson.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-585-E, Nov 2007. 7pp.
Published in **Phys.Rev.Lett.100:082002,2008**.
e-Print: [arXiv:0711.0319](#) [hep-ex]

12) Search for supersymmetry in di-photon final states at $s^{}(1/2) = 1.96$ -TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-560-E, Oct 2007. 8pp.
e-Print: [arXiv:0710.3946](#) [hep-ex]

13) Search for Randall-Sundrum gravitons with 1 fb⁻¹ of data from p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-553-E, Oct 2007. 7pp.
Published in **Phys.Rev.Lett.100:091802,2008**.
e-Print: [arXiv:0710.3338](#) [hep-ex]

14) Search for W-prime bosons decaying to an electron and a neutrino with the D0 detector.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-499-E, Oct 2007. 7pp.
Published in **Phys.Rev.Lett.100:031804,2008**.
e-Print: [arXiv:0710.2966](#) [hep-ex]

15) Measurement of the muon charge asymmetry from W boson decays.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-493-E, Sep 2007. 8pp.
Published in **Phys.Rev.D77:011106,2008**.
e-Print: [arXiv:0709.4254](#) [hep-ex]

16) Measurement of the p anti-p \rightarrow WZ + X cross-section at $s^{}(1/2) = 1.96$ -TeV and limits on WWZ trilinear gauge couplings.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-488-E, Sep 2007. 7pp.
Published in **Phys.Rev.D76:111104,2007**.
e-Print: [arXiv:0709.2917](#) [hep-ex]

17) Search for flavor-changing-neutral-current D meson decays.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-423-E, Aug 2007. 7pp.
Published in **Phys.Rev.Lett.100:101801,2008**.
e-Print: [arXiv:0708.2094](#) [hep-ex]

18) Search for B0(s) \rightarrow mu+ mu- at D0.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-395-E, Jul 2007. 7pp.
Published in **Phys.Rev.D76:092001,2007**.
e-Print: [arXiv:0707.3997](#) [hep-ex]

19) Search for the lightest scalar top quark in events with two leptons in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-352-E, Jul 2007. 8pp.
Published in **Phys.Lett.B659:500-508,2008**.
e-Print: [arXiv:0707.2864](#) [hep-ex]

20) Measurement of the Lambda(b)0 lifetime using semileptonic decays.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-205-E, Jun 2007. 7pp.
Published in **Phys.Rev.Lett.99:182001,2007**.

e-Print: [arXiv:0706.2358](#) [hep-ex]

21) Direct observation of the strange b baryon $\Xi(b)$ -.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-196-E, Jun 2007. 7pp.
Published in [Phys.Rev.Lett.99:052001,2007](#).

e-Print: [arXiv:0706.1690](#) [hep-ex]

22) Measurement of the t anti-t production cross-section in p anti-p collisions using dilepton events.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-143-E, Jun 2007. 26pp.
Published in [Phys.Rev.D76:052006,2007](#).

e-Print: [arXiv:0706.0458](#) [hep-ex]

23) Observation and Properties of $L = 1$ B(1) and B*(2) Mesons.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-130-E, May 2007. 8pp.
Published in [Phys.Rev.Lett.99:172001,2007](#).

e-Print: [arXiv:0705.3229](#) [hep-ex]

24) Measurement of the t anti-t production cross section in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV using kinematic characteristics of lepton + jets events.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-128-E, May 2007. 24pp.
Published in [Phys.Rev.D76:092007,2007](#).

e-Print: [arXiv:0705.2788](#) [hep-ex]

25) Z gamma production and limits on anomalous Z Z gamma and Z gamma gamma couplings in panti-p collisions at $s^{}(1/2) = 1.96$ - TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-117-E, 0705.1550, May 2007. 8pp.
Published in [Phys.Lett.B653:378-386,2007](#).

e-Print: [arXiv:0705.1550](#) [hep-ex]

26) Search for third-generation leptoquarks in p anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-113-E, May 2007. 8pp.
Published in [Phys.Rev.Lett.99:061801,2007](#).

e-Print: [arXiv:0705.0812](#) [hep-ex]

27) Search for stopped gluinos from p-anti-p collisions at $s^{}(1/2) = 1.96$ -TeV.**

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-100-E, May 2007. 7pp.
Published in [Phys.Rev.Lett.99:131801,2007](#).

e-Print: [arXiv:0705.0306](#) [hep-ex]

28) Search for a Higgs boson produced in association with a Z boson in p anti-p collisions.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-076-E, Apr 2007. 8pp.
Published in [Phys.Lett.B655:209-216,2007](#).

e-Print: [arXiv:0704.2000](#) [hep-ex]

29) Study of the decay $B_0(s) \rightarrow D(s)^* D(s)^*$.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-047-E, Feb 2007. 7pp.
Published in [Phys.Rev.Lett.99:241801,2007](#).

e-Print: [hep-ex/0702049](#)

30) Combined D0 measurements constraining the CP-violating phase and width difference in the $B_0(s)$ system.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-044-E, Feb 2007. 6pp.
Published in [Phys.Rev.D76:057101,2007](#).

e-Print: [hep-ex/0702030](#)

31) Measurement of the shape of the boson rapidity distribution for p anti- $p \rightarrow Z/\gamma^* \rightarrow e^+ e^- + X$ events produced at $\sqrt{s}^{*}(1/2)$ of 1.96-TeV.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-040-E, Feb 2007. 11pp.
Published in **Phys.Rev.D76:012003,2007**.
e-Print: [hep-ex/0702025](#)

32) Measurement of the top quark mass in the lepton + jets channel using the Ideogram method.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-039-E, Feb 2007. 21pp.
Published in **Phys.Rev.D75:092001,2007**.
e-Print: [hep-ex/0702018](#)

33) Search for production of single top quarks via flavor-changing neutral currents at the Tevatron.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-031-E, Feb 2007. 7pp.
[Press Release](#).
Published in **Phys.Rev.Lett.99:191802,2007**.
e-Print: [hep-ex/0702005](#)

34) Lifetime difference and CP-violating phase in the $B_0(s)$ system.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-007-E, Jan 2007. 7pp.
Published in **Phys.Rev.Lett.98:121801,2007**.
e-Print: [hep-ex/0701012](#)

35) Measurement of the charge asymmetry in semileptonic B_s decays.

By D0 Collaboration ([V.M. Abazov et al.](#)). FERMILAB-PUB-07-005-E, LBNL-62244, Jan 2007. 7pp.
Published in **Phys.Rev.Lett.98:151801,2007**.
e-Print: [hep-ex/0701007](#)

1 DOCUMENT for the CHEP ILC Group in 2006:

1) CALICE Report to the Calorimeter R&D Review Panel.

By CALICE Collaboration ([C. Adloff et al.](#)). ILC-DET-2007-024, Jul 2007. 77pp.
e-Print: [arXiv:0707.1245](#) [physics.ins-det]

14 DOCUMENTS for the CHEP ZEUS Group in 2007:

1) Recent results from HERA.

By H1 and ZEUS Collaborations ([Francois Corriveau for the collaboration](#)). 2007. 4pp.
Prepared for 13th International Symposium on Particles, Strings and Cosmology (PASCOS 07), London, England, 2-7 Jul 2007.
Published in **AIP Conf.Proc.957:205-208,2007**.

2) Diffractive photoproduction of dijets in ep collisions at HERA.

By The ZEUS Collaboration ([Sergei Chekanov et al.](#)). DESY-07-161, Sep 2007. 31pp.
Published in **Eur.Phys.J.C55:177-191,2008**.
e-Print: [arXiv:0710.1498](#) [hep-ex]

3) Exclusive ρ_0 production in deep inelastic scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-118, Aug 2007. 58pp.
Published in **PMC Phys.A1:6,2007**.
e-Print: [arXiv:0708.1478](#) [hep-ex]

4) Dijet production in diffractive deep inelastic scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-126, Aug 2007. 34pp.
 Published in *Eur.Phys.J.C***52:813-832,2007**. Also in
 e-Print: [arXiv:0708.1415](#) [hep-ex]

5) Three- and four-jet final states in photoproduction at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-102, Jul 2007. 50pp.
 Published in *Nucl.Phys.B***792:1-47,2008**.
 e-Print: [arXiv:0707.3749](#) [hep-ex]

6) Forward-jet production in deep inelastic ep scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-100, Jul 2007. 32pp.
 Published in *Eur.Phys.J.C***52:515-530,2007**.
 e-Print: [arXiv:0707.3093](#) [hep-ex]

7) High-E(T) dijet photoproduction at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-092, Jun 2007. 43pp.
 Published in *Phys.Rev.D***76:072011,2007**.
 e-Print: [arXiv:0706.3809](#) [hep-ex]

8) Bose-Einstein Correlations of Charged and Neutral Kaons in Deep Inelastic Scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-069, Jun 2007. 24pp.
 Published in *Phys.Lett.B***652:1-12,2007**.
 e-Print: [arXiv:0706.2538](#) [hep-ex]

9) Measurement of (anti)deuteron and (anti)proton production in DIS at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-070, May 2007. 27pp.
 Submitted to *Nucl.Phys.B*
 e-Print: [arXiv:0705.3770](#) [hep-ex]

10) Multijet production at low x(Bj) in deep inelastic scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-062, May 2007. 28pp.
 Published in *Nucl.Phys.B***786:152-180,2007**.
 e-Print: [arXiv:0705.1931](#) [hep-ex]

11) Measurement of D mesons production in deep inelastic scattering at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-052, Apr 2007. 46pp.
 Published in *JHEP* **0707:074,2007**.
 e-Print: [arXiv:0704.3562](#) [hep-ex]

12) Diffractive photoproduction of D*+-(2010) at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-039, Mar 2007. 30pp.
 Published in *Eur.Phys.J.C***51:301-315,2007**.
 e-Print: [hep-ex/0703046](#)

13) Measurement of D*+- meson production in e+- p scattering at low Q2.**

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-012, Feb 2007. 24pp.
 Published in *Phys.Lett.B***649:111-121,2007**.
 e-Print: [hep-ex/0702034](#)

14) Leading neutron energy and pT distributions in deep inelastic scattering and photoproduction at HERA.

By ZEUS Collaboration ([S. Chekanov et al.](#)). DESY-07-011, Feb 2007. 48pp.
 Published in *Nucl.Phys.B***776:1-37,2007**.

e-Print: [hep-ex/0702028](#)

33 DOCUMENTS for the CHEP Theory Group in 2007:

1) String Gas Cosmology and Non-Gaussianities.

[Bin Chen](#) (Peking U.) , [Yi Wang](#) (Beijing, Inst. Theor. Phys. & Hefei, CUST) , [Wei Xue](#) (Peking U.) , [Robert Brandenberger](#) (McGill U.) . CAS-KITPC-ITP-023, Dec 2007. 17pp.

e-Print: [arXiv:0712.2477](#) [hep-th]

2) Entropy fluctuations in brane inflation models.

[Robert H. Brandenberger](#), [Andrew R. Frey](#) (McGill U.) , [Larissa C. Lorenz](#) (Paris, Inst. Astrophys.) . Dec 2007. 13pp.

e-Print: [arXiv:0712.2178](#) [hep-th]

3) Observational Constraints on Theories with a Blue Spectrum of Tensor Modes.

[Andrew Stewart](#), [Robert Brandenberger](#) . Nov 2007. 12pp. [Temporary entry](#)
Published in **JCAP 0808:012,2008**.

e-Print: [arXiv:0711.4602](#) [astro-ph]

4) On Perturbations of Quintom Bounce.

[Yi-Fu Cai](#), [Taotao Qiu](#) (Beijing, Inst. High Energy Phys.) , [Robert Brandenberger](#) (McGill U. & Beijing, KITPC) , [Yun-Song Piao](#) (Beijing, GUCAS) , [Xinmin Zhang](#) (Beijing, Inst. High Energy Phys.) . CAS-KITPC-ITP-016, Nov 2007. 21pp.

Published in **JCAP 0803:013,2008**.

e-Print: [arXiv:0711.2187](#) [hep-th]

5) Cosmic Strings and Weak Gravitational Lensing.

[Sergei Dyda](#), [Robert H. Brandenberger](#) . Oct 2007. 7pp. [Temporary entry](#)

e-Print: [arXiv:0710.1903](#) [astro-ph]

6) Lensing and CMB Anisotropies by Cosmic Strings at a Junction.

[Robert Brandenberger](#), [Hassan Firouzjahi](#), [Johanna Karouby](#) (McGill U.) . Oct 2007. 17pp.
Published in **Phys.Rev.D77:083502,2008**.

e-Print: [arXiv:0710.1636](#) [hep-th]

7) A Back-reaction Induced Lower Bound on the Tensor-to-Scalar Ratio.

[P. Martineau](#), [R. Brandenberger](#) (McGill U.) . Sep 2007. 5pp.

Published in **Mod.Phys.Lett.A23:727-735,2008**.

e-Print: [arXiv:0709.2671](#) [astro-ph]

8) Detecting Cosmic Strings in the CMB with the Canny Algorithm.

[Stephen Amsel](#), [Joshua Berger](#), [Robert H. Brandenberger](#) . Sep 2007. 8pp. [Temporary entry](#)

Published in **JCAP 0804:015,2008**.

e-Print: [arXiv:0709.0982](#) [astro-ph]

9) Evolution of Gravitational Perturbations in Non-Commutative Inflation.

[Seoktae Koh](#), [Robert H. Brandenberger](#) (McGill U.) . Aug 2007. 24pp.

Published in **JCAP 0711:013,2007**.

e-Print: [arXiv:0708.1014](#) [hep-th]

10) On the Transfer of Adiabatic Fluctuations through a Nonsingular Cosmological Bounce.

[Stephon Alexander](#), [Tirthabir Biswas](#) (Penn State U.) , [Robert H. Brandenberger](#) (McGill U.) .

IGPG-07-7-1, Jul 2007. 8pp.

e-Print: [arXiv:0707.4679](#) [hep-th]

11) Cosmological Perturbations on a Bouncing Brane.

Robert Brandenberger, Hassan Firouzjahi, Omid Saremi . Jul 2007. 30pp. [Temporary entry](#)
 Published in **JCAP 0711:028,2007**.
 e-Print: [arXiv:0707.4181](#) [hep-th]

12) Emergence of fluctuations from a tachyonic big bang.

Robert H. Brandenberger, Andrew R. Frey, Sugumi Kanno (McGill U.) . Jun 2007. 8pp.
 Published in **Phys.Rev.D76:083524,2007**.
 e-Print: [arXiv:0706.1104](#) [hep-th]

13) Towards A Nonsingular Tachyonic Big Crunch.

Robert H. Brandenberger, Andrew R. Frey, Sugumi Kanno (McGill U.) . May 2007. 7pp.
 Published in **Phys.Rev.D76:063502,2007**.
 e-Print: [arXiv:0705.3265](#) [hep-th]

14) String theory, space-time non-commutativity and structure formation.

Robert H. Brandenberger (McGill U.) . Mar 2007. 12pp.
 Invited talk at 21st Nishinomiya-Yukawa Memorial Symposium on Theoretical Physics:
 Noncommutative Geometry and Quantum Spacetime in Physics, Nishinomiya and Kyoto, Japan, 11-15
 Nov 2006.
 e-Print: [hep-th/0703173](#)

15) Cosmological perturbations in non-commutative inflation.

Seoktae Koh, Robert H. Brandenberger (McGill U.) . Feb 2007. 7pp.
 Published in **JCAP 0706:021,2007**.
 e-Print: [hep-th/0702217](#)

16) String Gas Cosmology and Structure Formation: A Brief Review.

Robert H. Brandenberger (McGill U.) . Feb 2007. 11pp.
 Invited talk at International Symposium on Cosmology and Particle Astrophysics (CosPA 2006),
 Taipei, Taiwan, China, 15-17 Nov 2006.
 Published in **Mod.Phys.Lett.A22:1875-1885,2007**.
 e-Print: [hep-th/0702001](#)

17) Topics in cosmology.

Robert Brandenberger (McGill U.) . Jan 2007. 46pp.
 Invited talk at School on Particle Physics, Gravity and Cosmology: 1. Interface Between Cosmology
 and Particle Physics. 2. Particle Physics, Gravity and String Theory, Dubrovnik, Croatia, 21 Aug - 2
 Sep 2006.
 Published in **PoS P2GC:007,2006**.
 e-Print: [hep-th/0701157](#)

18) Conceptual Problems of Inflationary Cosmology and a New Approach to Cosmological Structure Formation.

Robert H. Brandenberger (McGill U.) . Jan 2007. 34pp.
 Invited talk at 22nd IAP Colloquium on Inflation + 25: The First 25 Years of Inflationary Cosmology,
 Paris, France, 26-30 Jun 2006.
 Published in **Lect.Notes Phys.738:393-424,2008**.
 e-Print: [hep-th/0701111](#)

19) Predictions of the causal entropic principle for environmental conditions of the universe.

James M. Cline, Andrew R. Frey, Gilbert Holder (McGill U.) . Sep 2007. 13pp.
 Published in **Phys.Rev.D77:063520,2008**.
 e-Print: [arXiv:0709.4443](#) [hep-th]

20) Testing the k^{*3} Component in the Primordial Perturbation Power Spectrum.

Loison Hoi, James M. Cline, Gilbert P. Holder (McGill U.) . Jun 2007. 23pp.
e-Print: [arXiv:0706.3887](#) [astro-ph]

21) Fine-Tuning in Brane-antibrane Inflation.

James M. Cline (McGill U.) . May 2007. 14pp.
Presented at From Strings to LHC Workshop, Goa, India, 2-10 Jan 2007.
Published in **PoS STRINGSLHC:023,2006**.
e-Print: [arXiv:0705.2982](#) [hep-th]

22) Large Nongaussianity from Nonlocal Inflation.

N. Barnaby, J.M. Cline (McGill U.) . Apr 2007. 27pp.
Published in **JCAP 0707:017,2007**.
e-Print: [arXiv:0704.3426](#) [hep-th]

23) Braneworld cosmology.

James M. Cline (McGill U.) . MCGILL-07-527, Apr 2007. 14pp.
Invited talk at From Strings to LHC Workshop, Goa, India, 2-10 Jan 2007.
Published in **PoS STRINGSLHC:011,2006**.
e-Print: [arXiv:0704.2198](#) [Unknown]

24) Quaternionic Kahler Manifolds, Constrained Instantons and the Magic Square. I.

Keshav Dasgupta (McGill U.) , Veronique Hussin (Montreal U., DMS) , Alisha Wissanji (Montreal U., CRM) . Aug 2007. 64pp.
Published in **Nucl.Phys.B793:34-82,2008**.
e-Print: [arXiv:0708.1023](#) [hep-th]

25) Lumps in the throat.

Keshav Dasgupta, Hassan Firouzjahi, Rhiannon Gwyn (McGill U.) . Feb 2007. 31pp.
Published in **JHEP 0704:093,2007**.
e-Print: [hep-th/0702193](#)

26) Quantum Gravity Partition Functions in Three Dimensions.

Alexander Maloney (McGill U.) , Edward Witten (Princeton, Inst. Advanced Study) . Dec 2007. 71pp.
e-Print: [arXiv:0712.0155](#) [hep-th]

27) Radiative and collisional jet energy loss in the quark-gluon plasma at RHIC.

Guang-You Qin, Jorg Ruppert, Charles Gale, Sangyong Jeon, Guy D. Moore (McGill U.) , Munshi G. Mustafa (Saha Inst.) . Oct 2007. 4pp.
Published in **Phys.Rev.Lett.100:072301,2008**.
e-Print: [arXiv:0710.0605](#) [hep-ph]

28) Heavy quark diffusion in perturbative QCD at next-to-leading order.

Simon Caron-Huot, Guy D. Moore (McGill U.) . Aug 2007. 4pp.
Published in **Phys.Rev.Lett.100:052301,2008**.
e-Print: [arXiv:0708.4232](#) [hep-ph]

29) Decoherence due to the Horizon after Inflation.

Jonathan W. Sharman, Guy D. Moore (McGill U.) . Aug 2007. 11pp.
Published in **JCAP 0711:020,2007**.
e-Print: [arXiv:0708.3353](#) [gr-qc]

30) 3D $N = 1$ SYM Chern-Simons theory on the Lattice.

Joshua W. Elliott, Guy D. Moore (McGill U.) . Aug 2007. 16pp.
Published in **JHEP 0711:067,2007**.

e-Print: [arXiv:0708.3214](#) [hep-lat]

31) Next-to-Leading Order Shear Viscosity in λ ϕ^4 Theory.

[Guy D. Moore](#) (McGill U.) . Jun 2007. 4pp.

Published in [Phys.Rev.D76:107702,2007](#).

e-Print: [arXiv:0706.3692](#) [hep-ph]

32) Non-Abelian plasma instabilities for extreme anisotropy.

[Peter Arnold](#) (Virginia U.) , [Guy D. Moore](#) (McGill U.) . Jun 2007. 29pp.

Published in [Phys.Rev.D76:045009,2007](#).

e-Print: [arXiv:0706.0490](#) [hep-ph]

33) The standard model: A primer.

[C.P. Burgess](#), [G.D. Moore](#) . 2007. 542pp.

Cambridge, UK: Cambridge Univ. Pr. (2007) 542 p.

24 DOCUMENTS for the CHEP Nuclear Physics Group in 2007:

1) Electromagnetic radiation from nuclear collisions at RHIC energies.

[Simon Turbide](#), [Charles Gale](#) (McGill U.) , [Evan Frodermann](#) (Ohio State U.) , [Ulrich Heinz](#) (Ohio State U. & CERN) . CERN-PH-TH-2007-239, Dec 2007. 11pp.

Published in [Phys.Rev.C77:024909,2008](#).

e-Print: [arXiv:0712.0732](#) [hep-ph]

2) Heavy Ion Collisions at the LHC - Last Call for Predictions.

[N. Armesto](#), (ed.) *et al.* Nov 2007. 185pp.

Presented at Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions, Geneva, Switzerland, 14 May - 8 Jun 2007.

Published in [J.Phys.G35:054001,2008](#).

e-Print: [arXiv:0711.0974](#) [hep-ph]

3) Radiative and collisional jet energy loss in the quark-gluon plasma at RHIC.

[Guang-You Qin](#), [Jorg Ruppert](#), [Charles Gale](#), [Sangyong Jeon](#), [Guy D. Moore](#) (McGill U.) , [Munshi G. Mustafa](#) (Saha Inst.) . Oct 2007. 4pp.

Published in [Phys.Rev.Lett.100:072301,2008](#).

e-Print: [arXiv:0710.0605](#) [hep-ph]

4) Photons and dileptons at LHC.

[Rainer J. Fries](#) (Texas A-M, Cyclotron Inst. & Texas A-M & RIKEN BNL) , [Simon Turbide](#), [Charles Gale](#) (McGill U.) , [Dinesh K Srivastava](#) (Calcutta, VECC) . Jul 2007. 2pp.

e-Print: [arXiv:0707.0261](#) [nucl-th]

5) Low mass dimuons produced in relativistic nuclear collisions.

[Jorg Ruppert](#), [Charles Gale](#) (McGill U.) , [Thorsten Renk](#) (Jyvaskyla U. & Helsinki Inst. of Phys.) , [Peter Lichard](#) (Silesian U., Czech Republic & IEAP CTU, Prague) , [Joseph I. Kapusta](#) (Minnesota U.) . Jun 2007. 4pp.

Published in [Phys.Rev.Lett.100:162301,2008](#).

e-Print: [arXiv:0706.1934](#) [hep-ph]

6) Nuclear suppression of jets and R(AA) at the LHC.

[G.Y. Qin](#), [J. Ruppert](#), [S. Turbide](#), [C. Gale](#), [S. Jeon](#) (McGill U.) . May 2007. 2pp.

Contributed to Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions, Geneva, Switzerland, 14 May - 8 Jun 2007.

e-Print: [arXiv:0705.4468](#) [hep-ph]

7) Stopping power from SPS to LHC energies.

V. Topor Pop, J. Barrette, C. Gale, S. Jeon (McGill U.) , M. Gyulassy (Columbia U. & Frankfurt U., FIAS) . May 2007. 3pp.

Contributed to Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions, Geneva, Switzerland, 14 May - 8 Jun 2007.

e-Print: [arXiv:0705.2759](#) [hep-ph]

8) (Multi)strangeness production in Pb + Pb collisions at LHC: HIJING / B anti-B v2.0 predictions.

V. Topor Pop, J. Barrette, C. Gale, S. Jeon (McGill U.) , M. Gyulassy (Columbia U. & Frankfurt U., FIAS) . May 2007. 3pp.

Contributed to Workshop on Heavy Ion Collisions at the LHC: Last Call for Predictions, Geneva, Switzerland, 14 May - 8 Jun 2007.

e-Print: [arXiv:0705.2705](#) [hep-ph]

9) Radiative jet energy loss in a three-dimensional hydrodynamical medium and high pT azimuthal asymmetry of pi0 suppression at mid and forward rapidity in Au+Au collisions at sNN=200 GeV.

Guang-You Qin, Jorg Ruppert, Simon Turbide, Charles Gale (McGill U.) , Chiho Nonaka (Nagoya U.) , Steffen A. Bass (Duke U.) . May 2007. 8pp.

Published in [Phys.Rev.C76:064907,2007](#).

e-Print: [arXiv:0705.2575](#) [hep-ph]

10) Photon Production from Charge-Asymmetric Hot and Dense Matter.

Guang-You Qin (McGill U.) , Abhijit Majumder (Duke U.) , Charles Gale (McGill U.) . Mar 2007. 10pp.

Published in [Phys.Rev.C75:064909,2007](#).

e-Print: [hep-ph/0703312](#)

11) Electromagnetic Radiation from Broken Symmetries in Relativistic Nuclear Collisions.

Guang-You Qin, Charles Gale (McGill U.) , Abhijit Majumder (Duke U.) . Mar 2007. 6pp.

Contributed to 19th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions: Quark Matter 2006 (QM2006), Shanghai, China, 14-20 Nov 2006.

Submitted to [Int.J.Mod.Phys.E](#)

e-Print: [hep-ph/0703026](#)

12) Elliptic flow of thermal dileptons in relativistic nuclear collisions.

Rupa Chatterjee, Dinesh K. Srivastava (Calcutta, VECC) , Ulrich W. Heinz (Ohio State U.) , Charles Gale (McGill U.) . Feb 2007. 8pp.

Published in [Phys.Rev.C75:054909,2007](#).

e-Print: [nucl-th/0702039](#)

13) High momentum lepton pairs from jet-plasma interactions.

Simon Turbide, Charles Gale (McGill U.) . Jan 2007. 4pp.

Parallel talk given at 19th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions: Quark Matter 2006 (QM2006), Shanghai, China, 14-20 Nov 2006.

Published in [J.Phys.G34:S1019-1022,2007](#).

e-Print: [hep-ph/0701230](#)

14) Transient field fluctuations effects in d+Au and Au+Au collisions at sNN=200 GeV.

V. Topor Pop (McGill U.) , M. Gyulassy (Columbia U. & Frankfurt U.) , J. Barrette, C. Gale, S. Jeon (McGill U.) , R. Bellwied (Wayne State U.) . Jan 2007. 16pp.

Published in [Phys.Rev.C75:014904,2007](#).

15) Tensor Meson Production in Proton-Proton Collisions from the Color Glass Condensate.

Francois Fillion-Gourdeau, Sangyong Jeon (McGill U.) . Sep 2007. 26pp.
Published in **Phys.Rev.C77:055201,2008**.
e-Print: [arXiv:0709.4196](#) [hep-ph]

16) Leading Order Calculation of Shear Viscosity in Hot Quantum Electrodynamics from Diagrammatic Methods.

Jean-Sebastien Gagnon, Sangyong Jeon (McGill U.) . Aug 2007. 45pp.
Published in **Phys.Rev.D76:105019,2007**.
e-Print: [arXiv:0708.1631](#) [hep-ph]

17) Ward identity constraints on ladder kernels in transport coefficient calculations.

J.S. Gagnon, S. Jeon (McGill U.) . 2007. 4pp.
Prepared for International Conference on Strong and Electroweak Matter (SEWM 2006), Upton, New York, 10-13 May 2006.
Published in **Nucl.Phys.A785:226-229,2007**.

18) All orders Boltzmann collision term from the multiple scattering expansion of the self-energy.

F. Fillion-Gourdeau, J.S. Gagnon, S. Jeon (McGill U.) . 2007. 4pp.
Prepared for International Conference on Strong and Electroweak Matter (SEWM 2006), Upton, New York, 10-13 May 2006.
Published in **Nucl.Phys.A785:222-225,2007**.

19) How particles emerge from decaying classical fields in heavy ion collisions: Towards a kinetic description of the Glasma.

Francois Gelis (CERN) , Sangyong Jeon (McGill U.) , Raju Venugopalan (Brookhaven) .
CERN-PH-TH-2007-106, Jun 2007. 29pp.
e-Print: [arXiv:0706.3775](#) [hep-ph]

20) Jet energy loss and high p(T) photon production in hot QGP.

Sang-Yong Jeon (McGill U.) . 2007. 8pp.
Prepared for 2nd International Conference on Hard and Electromagnetic Probes of High-Energy Nuclear Collisions (Hard Probes 2006), Asilomar, Pacific Grove, California, 9-16 Jun 2006.
Published in **Nucl.Phys.A783:387-394,2007**.

21) Isoscaling, symmetry energy and thermodynamic models.

G. Chaudhuri, S. Das Gupta (McGill U.) , M. Mocko (Michigan State U., NSCL) . Dec 2007. 27pp.
e-Print: [arXiv:0711.4992](#) [nucl-th]

22) Upper Limit on the Cosmic Gamma-Ray Burst Rate from High Energy Diffuse Neutrino Background.

Pijushpani Bhattacharjee, Sovan Chakraborty, Srirupa Das Gupta, Kamales Kar . Oct 2007. 17pp.
[Temporary entry](#)
Published in **Phys.Rev.D77:043008,2008**.
e-Print: [arXiv:0710.5922](#) [astro-ph]

23) Cross-sections of neutron rich nuclei from projectile fragmentation: Canonical thermodynamic model estimates.

G. Chaudhuri, S.Das Gupta (McGill U.) , W.G. Lynch, M. Mocko, M.B. Tsang (Michigan State U., NSCL & Michigan State U.) . Jul 2007. 10pp.
Published in **Phys.Rev.C76:067601,2007**.
e-Print: [arXiv:0707.0710](#) [nucl-th]

24) Specific heat and bimodality in canonical and grand canonical versions of the thermodynamic model.

G. Chaudhuri, S. Das Gupta (McGill U.) . Apr 2007. 19pp.
 Published in **Phys.Rev.C76:014619,2007**.
 e-Print: [arXiv:0704.0288](#) [nucl-th]

12 DOCUMENTS for the CHEP Astro-Particle Group in 2007:

1) Observations of the Pulsar PSR B1951+32 with the Solar Tower Atmospheric Cherenkov Effect Experiment.

J. Kildea *et al.* Oct 2007. 4pp. [Temporary entry](#)
 e-Print: [arXiv:0710.4623](#) [astro-ph]

2) STACEE Observations of 1ES 1218+304.

By STACEE Collaboration (R. Mukherjee *et al.*). Oct 2007. 4pp.
 To appear in the proceedings of 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007.
 e-Print: [arXiv:0710.4170](#) [astro-ph]

3) Gamma-Ray Burst Follow-up Observations with STACEE During 2003-2007.

By STACEE Collaboration (A. Jarvis *et al.*). Oct 2007. 4pp.
 Presented at 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007.
 e-Print: [arXiv:0710.4149](#) [astro-ph]

4) Search for Dark Matter Annihilation in Draco with STACEE.

By STACEE Collaboration (D.D. Driscoll *et al.*). Oct 2007. 4pp.
 Presented at 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007.
 e-Print: [arXiv:0710.3545](#) [astro-ph]

5) Calibration Techniques for VERITAS.

David Hanna, for the VERITAS Collaboration . Sep 2007. 4pp. [Temporary entry](#)
 e-Print: [arXiv:0709.4479](#) [astro-ph]

6) VERITAS: Status and Latest Results.

By VERITAS Collaboration (G. MAIER *et al.*). Sep 2007. 4pp.
 Contributed to 30th International Cosmic Ray Conference (ICRC 2007), Merida, Yucatan, Mexico, 3-11 Jul 2007.
 e-Print: [arXiv:0709.3654](#) [astro-ph]

7) VERITAS telescopes celebrate first light.

D. Hanna (McGill U.) . 2007. 3pp.
 Published in **CERN Cour.47N6:19-21,2007**.

8) Very high energy observations of the BL Lac objects 3C 66A and OJ 287.

T. Lindner *et al.* Jul 2007. 24pp.
 Published in **Astropart.Phys.28:338-347,2007**.
 e-Print: [arXiv:0707.2815](#) [astro-ph]

9) Status report from VERITAS.

F. Krennrich *et al.* 2007. 6pp.
 Prepared for 2nd Workshop on TeV Particle Astrophysics, Madison, Wisconsin, 28-31 Aug 2006.
 Published in **J.Phys.Conf.Ser.60:34-39,2007**.

10) Very High Energy Observations of Gamma-Ray Burst Locations with the Whipple

Telescope.

[D. Horan](#) *et al.* Jan 2007.

Published in **Astrophys.J.655:396-405,2007.**

e-Print: [astro-ph/0701281](#)

11) Digital Frequency Domain Multiplexer for mm-Wavelength Telescopes.

[Matt Dobbs](#), [Eric Bissonnette](#) ([McGill U.](#)) , [Helmuth Spieler](#) ([LBL, Berkeley](#)) . Aug 2007. 6pp.

Published in **IEEE Trans.Nucl.Sci.55:21-26,2008.**

e-Print: [arXiv:0708.2762](#) [physics.ins-det]

12) Digital Frequency Domain Multiplexer for mm-Wavelength Telescopes.

[M.A. Dobbs](#) ([McGill U.](#)) . RT2007-FESP302, Apr 2007.

Presented at 15th IEEE Real Time Conference 2007 (RT 07), Batavia, Illinois, 29 Apr - 4 May 2007.
