CHRISTINE A. AIDALA
PUBLICATION LIST

PAPERS SUBMITTED FOR PUBLICATION:

1) **Global analysis of fragmentation functions for eta mesons.** C.A. Aidala, F. Ellinghaus, R. Sassot, J.P. Seele, and M. Stratmann. Submitted to Phys. Rev. D. arXiv:1009.6145 [hep-ph]

PHENIX Collaboration papers (significant contribution made to those in ***bold italic***):

2) ***Cross section and double helicity asymmetry for eta mesons and their comparison to neutral pion production in proton-proton collisions at √s = 200 GeV.*** **A. Adare *et al.* Submitted to Phys. Rev. D. arXiv:1009.6224 [hep-ex]**

3) Event structure and double helicity asymmetry in jet production from polarized *p+p* collisions at √s = 200 GeV. A. Adare *et al*. Submitted to Phys. Rev. D. arXiv:1009.4921 [hep-ex]

4) ***Measurement of transverse single-spin asymmetries for J/Ψ production in polarized*** **p+p** ***collisions at √s = 200 GeV.*** **A. Adare *et al.* Submitted to Phys. Rev. D. arXiv:1009.4864 [hep-ex]**

5) Cross section and parity violating spin asymmetries of W production in polarized *p+p* collisions at √s = 200 GeV. A. Adare *et al*. Submitted to Phys. Rev. Lett. arXiv:1009.0505 [hep-ex]

6) ***Measurement of neutral mesons in p+p collisions at √s = 200 GeV and scaling properties of hadron production.*** **A. Adare *et al.* Submitted to Phys. Rev. D. arXiv:1005.3674 [hep-ex]**

7) Heavy quark production in *p+p* and energy loss and flow of heavy quarks in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Submitted to Phys. Rev C. arXiv:1005.1627 [nucl-ex]

8) Nuclear modification factors of phi mesons in d+Au, Cu+Cu and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Submitted to Phys. Rev. C. arXiv:1004.3532 [nucl-ex]

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1) **Towards an understanding of nucleon spin structure: from hard to soft scales.** S.D. Bass and C.A. Aidala. Int. J. Mod. Phys. A21:4407-4424, 2006.

2) **A hadron-blind detector for PHENIX.** C. Aidala *et al*. Nucl. Instrum. Meth. A502:200-204, 2003.

CHRISTINE A. AIDALA
PUBLICATION LIST

PHENIX Collaboration papers (significant contribution made to those in ***bold italic***):

3) Azimuthal anisotropy of neutral pion production in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV: Path-length dependence of jet quenching and the role of initial geometry. A. Adare *et al*. Phys. Rev. Lett. 105:142301, 2010.

4) High-p_T direct photon and π^0 triggered azimuthal jet correlations and measurement of k_T for isolated direct photons in *p+p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al*. Phys. Rev. D82:072001, 2010.

5) Elliptic and hexadecapole flow of charged hadrons in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 105:062301, 2010.

6) *Transverse momentum dependence of η meson suppression in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV*. A. Adare *et al*. Phys. Rev. C82:011902 (R), 2010.

7) Transverse momentum dependence of J/Ψ polarization at mid-rapidity in *p+p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al*. Phys. Rev. D82:012001, 2010.

8) Trends in yield and azimuthal shape modification in dihadron correlations in relativistic heavy ion collisions. A. Adare *et al*. Phys. Rev. Lett. 104:252301, 2010.

9) Detailed measurement of the e+e- pair continuum in p+p and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV and implications for direct photon production. A. Adare *et al*. Phys. Rev. C81:034911, 2010.

10) Enhanced production of direct photons in Au+Au collisions at $\sqrt{s_{NN}}$ = 200. A. Adare *et al*. Phys. Rev. Lett. 104:132301, 2010.

11) *Double helicity dependence of jet properties from dihadrons in longitudinally polarized* p+p *collisions at* $\sqrt{s}$ = 200 *GeV*. A. Adare *et al.* Phys. Rev. D81:012002, 2010.

12) High-p_T π^0 production with respect to the reaction plane in Au + Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al*. Phys. Rev. C80:054907, 2009.

13) Charged kaon interferometric probes of space-time evolution in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al*. Phys. Rev. Lett 103:142301, 2009.

14) Photon-hadron jet correlations in *p+p* and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C80:024908, 2009.

15) Systematic studies of elliptic flow measurements in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al*. Phys. Rev. C80:024909, 2009.

16) Measurement of bottom versus charm as a function of transverse momentum with electron-hadron correlations in *p*+*p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 103:082002, 2009.

17) Photoproduction of J/Ψ and of high mass e+e- in ultra-peripheral Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al*. Phys. Lett. B679:321, 2009.

18) The polarized gluon contribution to the proton spin from the double helicity asymmetry in inclusive π^0 production in polarized *p*+*p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 103, 012003 (2009).

19) Cold nuclear matter effects on J/Ψ production as constrained by deuteron-gold measurements at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C77, 024912 (2008), Err. Ibid.C79:059901, 2009.

20) Inclusive cross section and double helicity asymmetry for π^0 production in *p*+*p* collisions at $\sqrt{s}$ = 62.4 GeV. A. Adare *et al*. Phys. Rev. D79:012003, 2009.

21) Dilepton mass spectra in *p*+*p* collisions at $\sqrt{s}$ = 200 GeV and the contribution from open charm. A. Adare *et al*. Phys. Lett. B670:313, 2009.

22) Suppression pattern of neutral pions at high transverse momentum in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV and constraints on medium transport coefficients. A. Adare *et al*. Phys. Rev. Lett. 101:232301, 2008.

23) Onset of π^0 suppression studied in Cu+Cu collisions at $\sqrt{s_{NN}}$ = 22.4, 62.4, and 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 101:162301, 2008.

24) Charged hadron multiplicity fluctuations in Au+Au and Cu+Cu collisions from $\sqrt{s_{NN}}$ = 22.5 to 200 GeV. A. Adare *et al*. Phys. Rev. C78:044902, 2008.

25) J/Ψ production in $\sqrt{s_{NN}}$ = 200 GeV Cu+Cu collisions. A. Adare *et al.* Phys. Rev. Lett. 101:122301, 2008.

26) Dihadron azimuthal correlations in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C78:014901, 2008.

27) Quantitative constraints on the opacity of hot partonic matter from semi-inclusive single high transverse momentum pion suppression in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C77:064907, 2008.

28) Cold nuclear matter effects on J/Ψ production as constrained by deuteron-gold measurements at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare et al. Phys. Rev. C77:024912, 2008.

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31) Centrality dependence of charged hadron production in deuteron-gold and nucleon-gold collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al.* Phys. Rev. C77:014905, 2008.

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33) Elliptic flow for phi mesons and (anti)deuterons in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al*. Phys. Rev. Lett. 99:052301, 2007.

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35) System size and energy dependence of jet-induced hadron pair correlation shapes in Cu+Cu and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 and 62.4 GeV. A. Adare *et al*. Phys. Rev. Lett. 98:232302, 2007.

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37) J/Ψ production vs. transverse momentum and rapidity in *p*+*p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al.* Phys. Rev. Lett. 98:232002, 2007.

38) Energy loss and flow of heavy quarks in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 98:172301, 2007.

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55) Azimuthal angle correlations for rapidity-separated hadron pairs in *d*+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 96:222301, 2006.

56) *Common suppression pattern of η and π^0 mesons at high transverse momentum in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV*. S.S. Adler *et al*. Phys. Rev. Lett. 96:202301, 2006.

57) Measurement of identified π^0 and inclusive photon v_2 and implication to the direct photon production in $\sqrt{s_{NN}}$ = 200 GeV Au+Au collisions. S.S. Adler *et al*. Phys. Rev. Lett. 96:032302, 2006.

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59) ***Single electrons from heavy flavor decays in* p+p *collisions at* $\sqrt{s}$ *= 200 GeV*. S.S. Adler *et al*. Phys. Rev. Lett. 96:032001, 2006.**

60) J/Ψ production and nuclear effects for *d*+Au and *p*+*p* collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 96:012304, 2006.

61) ***Measurement of transverse single-spin asymmetries for mid-rapidity production of neutral pions and charged hadrons in polarized* p+p *collisions at* $\sqrt{s}$ *= 200 GeV*. S.S. Adler *et al*. Phys. Rev. Lett. 95:202001, 2005.**

62) ***Mid-rapidity direct photon production in* p+p *collisions at* $\sqrt{s_{NN}}$ *= 200 GeV*. S.S. Adler *et al*. Phys. Rev. D71:071102, 2005.**

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74) Bose-Einstein correlations of charged pion pairs in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 93:152302, 2004.

75) Measurement of non-random event-by-event fluctuations of average transverse momentum in $\sqrt{s_{NN}}$ = 200-GeV Au+Au and *p+p* collisions. S.S. Adler *et al*. Phys. Rev. Lett. 93:092301, 2004.

76) *J/Ψ production from proton-proton collisions at $\sqrt{s}$ = 200 GeV*. S.S. Adler *et al*. Phys. Rev. Lett. 92:051802, 2004.

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78) Identified charged particle spectra and yields in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. C69:034909, 2004.

79) J/Ψ production in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV at the Relativistic Heavy Ion Collider. S.S. Adler *et al*. Phys. Rev. C69:014901, 2004.

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81) Elliptic flow of identified hadrons in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 91:182301, 2003.

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CONFERENCE AND WORKSHOP PROCEEDINGS:

1) Spin physics: Session summary. C.A. Aidala, S. Liuti, C. Riedl, to appear in the proceedings of the 18th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2010), Florence, Italy, April 2010. **arXiv:1007.4563 [hep-ph]**

2) **Spin in hadron reactions.** C.A. Aidala. Proceedings of the 18th International Symposium on Spin Physics (SPIN2008), Charlottesville, VA, October 2008. (Invited plenary talk) AIP Conf. Proc. 1149:124, 2009. **arXiv:0903.2393 [hep-ex]**

3) **Transversity and transverse-momentum-dependent distribution measurements from PHENIX and BRAHMS.** C. Aidala for the PHENIX and BRAHMS Collaborations. Proceedings of the 2nd International Workshop on Transverse Polarization Phenomena in Hard Processes (Transversity 2008), Ferrara, Italy, May 2008. (Invited talk) **arXiv:0808.4139 [hep-ex]**

4) **Peering into hadronic matter: The Electron-Ion Collider.** C.A. Aidala for the Electron-Ion Collider Collaboration. Proceedings of the 24th Winter Workshop on Nuclear Dynamics, South Padre Island, TX, Apr 2008. (Invited talk) **arXiv:0806.4933 [nucl-ex]**

5) **Transverse spin at PHENIX: Results and prospects.** C. Aidala for the PHENIX Collaboration. Proceedings of the International Workshop on Transverse Polarisation Phenomena in Hard Processes, Como, Italy, Sep 2005. **hep-ex/0512001**

6) **Exploring the proton's spin at PHENIX.** C. Aidala for the PHENIX Collaboration. Proceedings of International School of Subnuclear Physics: 42nd Course: How and Where to Go Beyond the Standard Model, Erice, Italy, Aug - Sep 2004. **hep-ex/0501054**

7) **Single-spin transverse asymmetry in neutral pion and charged hadron production at PHENIX.** C. Aidala for the PHENIX Collaboration. Proceedings of the 12th International Workshop on Deep Inelastic Scattering (DIS 2004), Strbske Pleso, Slovakia, Apr 2004. 1059-1062. **hep-ex/0410003**

8) **Proposed detector upgrade for measuring low-mass lepton pairs in PHENIX.** C. Aidala for the PHENIX Collaboration. Proceedings of the Conference on the Intersections of Particle and Nuclear Physics, New York, NY, May 2003. **AIP Conf. Proc. 698:793-796, 2004**.

9) **Proposal for a hadron blind detector for PHENIX.** A. Kozlov *et al.* Presented at the Fourth International Workshop on Ring Imaging Cherenkov Detectors (RICH2002), Pylos, Greece, Jun 2002. **physics/0307101**

10) **Detector effects on the asymmetry A1: The measurability of the polarized structure function g_1 of the proton.** C. Aidala, A. Deshpande, V. Hughes. Proceedings of the Workshop on Polarized Protons at High Energies - Accelerator Challenges and Physics Opportunities, Hamburg, Germany, May 1999. 248-251.

PH.D. THESIS:

Measurement of the transverse single-spin asymmetry for mid-rapidity production of neutral pions in polarized *p+p* collisions at 200 GeV center-of-mass energy. C.A. Aidala. Columbia University, December 2005. **hep-ex/0601009**

OTHER PUBLICATIONS:

1) **Peering into hadronic matter: The Electron-Ion Collider**. C. Aidala. *RHIC News* article, July 29, 2008 edition. http://www.bnl.gov/rhic/news/072908/story1.asp

2) **A high luminosity, high energy electron-ion collider.** C. Aidala *et al.* White paper prepared for the NSAC Long Range Plan, 2007.

3) **Physics opportunities with *e*+A collisions at an electron-ion collider.** C. Aidala *et al.* White paper prepared for the NSAC Long Range Plan, 2007.

4) **Research plan for spin physics at RHIC**. C. Aidala *et al.* **BNL-73798-2005 (2005).**

5) **Getting a grip on the Grid: The Data Grid and computing in the 21st century.** C. Aidala. **Columbia Science Review**, Spring 2004.

6) **Measurement of longitudinal double spin asymmetry for π^0's in proton-proton collisions at $\sqrt{s}$ = 200 GeV from RHIC PHENIX Run-3**. A. Bazilevsky *et al.* **RIKEN Accel. Prog. Rep. 36 (2003).**