CHRISTINE A. AIDALA
PUBLICATION LIST
As of February 2013

PAPERS SUBMITTED FOR PUBLICATION OR IN PREPARATION:

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

1) The modification of photon-hadron jet correlations in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. Lett. arXiv:1212.3323

2) Upsilon (1S+2S+3S) production in *d*+Au and *p*+*p* collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. C. arXiv:1211.4017

3) Inclusive cross section and transverse single spin asymmetry for very forward neutron production in polarized *p*+*p* collisions at $\sqrt{s}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. D. arXiv:1209.3283

4) Neutral pion production with respect to centrality and reaction plane in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. C. arXiv:1208.2254

5) Direct photon production in *d*+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. Lett. arXiv:1208.1234

6) Direct photon production in *p*+*p* collisions at $\sqrt{s}$ = 200 GeV at midrapidity. A. Adare *et al.* Submitted to Phys. Rev. D. arXiv:1205.5533

7) Transverse-momentum dependence of the J/Ψ nuclear modification in *d*+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Submitted to Phys. Rev. C. arXiv:1204.0777

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1) **The spin structure of the nucleon. C.A. Aidala, S.D. Bass, D. Hasch, and G.K. Mallot. Accepted by Rev. Mod. Phys. arXiv:1209.2803** (Invited submission)

2) **Global analysis of fragmentation functions for eta mesons. C.A. Aidala, F. Ellinghaus, R. Sassot, J.P. Seele, and M. Stratmann. Phys. Rev. D83:034002, 2011.**

3) **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.**

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

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

1) Double spin asymmetry of electrons from heavy flavor decays in *p+p* collisions at $\sqrt{s} = 200$ GeV. A. Adare *et al*. Phys. Rev. D87:012001 (2012).

2) Cold-nuclear-matter effects on heavy quark production in *d+*Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare *et al.* Phys. Rev. Lett. 109:242301 (2012).

3) J/Ψ suppression at forward rapidity in Au+Au collisions at $\sqrt{s_{NN}}$ = 39 and 62.4 GeV. A. Adare *et al.* Phys. Rev. C86:064901 (2012).

4) Measurement of direct photons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. S. Afanasiev *et al.* Phys. Rev. Lett 109:152302 (2012).

5) Evolution of π^0 suppression in Au+Au collisions from $\sqrt{s_{NN}}$ = 39 to 200 GeV. A. Adare *et al.* Phys. Rev. Lett. 109:152301 (2012).

6) Observation of direct-photon collective flow in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare *et al.* Phys. Rev. Lett. 109:122302 (2012).

7) Nuclear modification factor for open-heavy-flavor-production at forward rapidity in Cu+Cu collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare *et al.* Phys. Rev. C86:024909 (2012).

8) Deviation from quark-number scaling of the anisotropy parameter v_2 of pions, kaons, and protons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare *et al.* Phys. Rev. C85:064914 (2012).

9) Ground and excited charmonium state production in *p+p* collisions at √s = 200 GeV. A. Adare *et al.* Phys. Rev. D85:092004 (2012).

10) Measurements of higher-order flow harmonics in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Phys. Rev. Lett. 107:252301, 2011.

11) ***The PHENIX Decadal Plan: Crafting the future of RHIC*. C.A. Aidala for the PHENIX Collaboration. J. Phys. Conf. Ser. 316:012017, 2011.**

12) ***Cross sections and double-spin asymmetries of midrapidity inclusive charged hadron production in* p+p *collisions at √s = 62.4 GeV.* A. Adare *et al.* Phys. Rev. D86:092006 (2012).**

13) Measurement of direct photon v_2 in $\sqrt{s_{NN}}$ = 200 GeV Au+Au collisions. A. Adare *et al.* Phys. Rev. Lett. 109:122302 (2012).

14) J/Ψ suppression at forward rapidity in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Phys. Rev. C84:054912, 2011.

15) Suppression of back-to-back hadron pairs at forward rapidity in *d*+Au collisions at at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Phys. Rev. Lett. 107:172301, 2011.

16) Production of omega mesons in *p+p, d*+Au, Cu+Cu, and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al.* Phys. Rev. C84:044902, 2011.

17) Cold nuclear matter effects on J/Ψ yields as a function of rapidity and nuclear geometry in *d*+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 107:142301, 2011.

18) 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*. Phys. Rev. C84:044905, 2011.

19) Suppression of away-side jet fragments with respect to the reaction plane in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C84:024904, 2011.

20) ***Cross section and double-helicity asymmetry in charged hadron production in* p+p *collisions at √s = 62.4 GeV at PHENIX.* C.A. Aidala for the PHENIX Collaboration. J. Phys. Conf. Ser. 295:012093, 2011.**

21) Event structure and double helicity asymmetry in jet production from polarized *p+p* collisions at √s = 200 GeV. A. Adare *et al*. Phys. Rev. D84:012006, 2011.

22) Identified charged hadron production in *p+p* collisions at √s = 200 and 62.4 GeV. A. Adare *et al.* Phys. Rev. C83:064903, 2011.

23) Azimuthal correlations of electrons from heavy-flavor decay with hadrons in *p+p* and Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. C83:044912, 2011.

24) ***Measurement of neutral mesons in p+p collisions at √s = 200 GeV and scaling properties of hadron production.* A. Adare *et al.* Phys. Rev. D83:052004, 2011.**

25) 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*. Phys. Rev. C83:024909, 2011.

26) Cross section and parity violating spin asymmetries of $W^{\pm}$ production in polarized *p+p* collisions at √s = 500 GeV. A. Adare *et al*. Phys. Rev. Lett. 106:062001, 2011.

27) ***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.* Phys. Rev. D83:032001, 2011.**

28) ***Measurement of transverse single-spin asymmetries for J/Ψ production in polarized*** **p+p** ***collisions at √s = 200 GeV.*** **A. Adare *et al.* Phys. Rev. D82:112008, 2010. Err. Ibid. D86:099904 (2012).**

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31) 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.

32) 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.**

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

34) 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.

35) 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.

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

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

38) 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.

39) 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.

40) 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.

41) 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.

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

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

45) 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.

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

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48) 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.

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

53) 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.

54) 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.

55) Particle-species dependent modification of jet-induced correlations in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S. Afanasiev *et al.* Phys. Rev. Lett. 101:082301, 2008.

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57) 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.

58) Transverse momentum and centrality dependence of dihadron correlations in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV: Jet quenching and the response of partonic matter. A. Adare *et al*. Phys. Rev. C77:011901, 2008.

59) 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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65) Scaling properties of azimuthal anisotropy in Au+Au and Cu+Cu collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare *et al*. Phys. Rev. Lett. 98:162301, 2007.

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67) Centrality dependence of π^0 and η production at large transverse momentum in $\sqrt{s_{NN}}$ = 200 GeV *d*+Au collisions. S.S. Adler *et al*. Phys. Rev. Lett. 98:127302, 2007.

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72) Production of omega mesons at large transverse momenta in *p+p* and *d*+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. C75:051902, 2007.

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74) Measurement of density correlations in pseudorapidity via charged particle multiplicity fluctuations in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. C76:034903, 2007.

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

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89) Formation of dense partonic matter in relativistic nucleus-nucleus collisions at RHIC: Experimental evaluation by the PHENIX Collaboration. K. Adcox *et al*. Nucl. Phys. A757:1-2, 184-283, 2005.

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94) Deuteron and antideuteron production in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 94:122302, 2005.

95) Nuclear modification factors for hadrons at forward and backward rapidities in deuteron-gold collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. Lett. 94:082302, 2005.

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***99) Double helicity asymmetry in inclusive mid-rapidity π^0 production for polarized* p+p *collisions at $\sqrt{s}$ = 200 GeV.* S.S. Adler *et al*. Phys. Rev. Lett. 93:202002, 2004.**

100) 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.

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103) High-p_T charged hadron suppression in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. S.S. Adler *et al*. Phys. Rev. C69:034910, 2004.

104) 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.

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CONFERENCE AND WORKSHOP PROCEEDINGS:

1) **Spin physics: Session summary.** C.A. Aidala, S. Liuti, C. Riedl, Proceedings of the 18th International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS2010), Florence, Italy, April 2010. Proceedings of Science DIS2010:018, 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 the 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 A_1: 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) **Gluons and the quark sea at high energies: Distributions, polarization, tomography.** D. Boer *et al.* Summary report of the INT program on the science case for the Electron-Ion Collider, Institute for Nuclear Theory, University of Washington, September 13 – November 19, 2010. arXiv:1108.1713 [nucl-th]

2) **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

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

4) **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.

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

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

7) **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).**

8) **Feasibility study for measurements of low-mass vector mesons for the PHENIX upgrade**. K. Ozawa *et al.* **Annual Report of the Center for Nuclear Study, University of Tokyo (2002).**