CHRISTINE A. AIDALA
PUBLICATION LIST
PAPERS SUBMITTED FOR PUBLICATION:

1. **One 4-twist helix snake to maintain polarization in 8–120 GeV proton rings**. F. Antoulinakis, E.A. Ljungman, A. Tai, C.A. Aidala, E.D. Courant, A.D. Krisch, W. Lorenzon, P.D. Meyers, R.S. Raymond, D.W. Sivers, M.A. Leonova, Y.S. Derbenev, V.S. Morozov, A.M. Kondratenko. arXiv:1309.1063

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

1. Measurement of parity-violating spin asymmetries in $W^{\pm}$ production at midrapidity in longitudinally polarized $p+p$ collisions. A. Adare et al. arXiv:1504.0704
2. Systematic study of charged-pion and kaon femtoscopy in Au+Au collisions at $\sqrt{s_{NN}}$=200 GeV. A. Adare et al. arXiv:1504.05168
3. Measurements of identified particle higher harmonic flow in Au+Au collisions at $\sqrt{s_{NN}}$ = 200 GeV. A. Adare et al. arXiv:1412.1038
4. Systematic study of v_2 in Cu+Cu and Au+Au collisions at $\sqrt{s_{NN}} = 62.4 - -200$ GeV. A. Adare et al. arXiv:1412.1043
5. Beam energy and system-size dependence of the space-time extent of the pion emission source produced in heavy ion collisions. A. Adare et al. arXiv:1410.2559

PUBLICATIONS IN PEER-REVIEWED JOURNALS:

1. **Limits on transverse-momentum-dependent evolution from semi-inclusive deep-inelastic scattering at moderate Q**. C.A. Aidala, B. Field, L.P. Gamberg, and T.C. Rogers. Phys. Rev. D89:094002, 2014.
2. **The PHENIX Forward Silicon Vertex Detector**. C. Aidala et al. Nucl. Instrum. Meth. A755:44, 2014.
3. **The spin structure of the nucleon**. C.A. Aidala, S.D. Bass, D. Hasch, and G.K. Mallot. Rev. Mod. Phys. 85:655, 2013. (Invited submission)
4. **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.
5. **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.
6. **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. Centrality dependence of thermal photon production in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions. A. Adare et al. Accepted by Phys. Rev. C. arXiv:1405.3940

2. Measurement of long-range angular correlation and quadrupole anisotropy of pions and (anti)protons in central d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare et al. Phys. Rev. Lett. 114:192301, 2015.

3. Heavy quark production and elliptic flow in Au+Au collisions at $\sqrt{s_{NN}} = 62.4$ GeV. A. Adare et al. Phys. Rev. C91:044907, 2015.

4. Search for dark photons from neutral meson decays in $p + p$ and d+Au collisions at $\sqrt{s_{NN}} =$ 200 GeV. A. Adare et al. Phys. Rev. C91:031901, 2015.

5. ***Inclusive cross sections, charge ratio and double-helicity asymmetries for π^+ and π^- production in p+p collisions at $\sqrt{s} = 200$ GeV.*** A. Adare et al. Phys. Rev. D91:032001, 2015.

6. Measurement of the $\upsilon(1S + 2S + 3S)$ cross section in $p + p$ and Au+Au collisions at $\sqrt{s_{NN}} =$ 200 GeV. A. Adare et al. Phys. Rev. C91:024913, 2015.

7. The cross section for $b\bar{b}$ production via dielectrons in d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare et al. Phys. Rev. C91:014907, 2015.

8. Nuclear matter effects on J/ψ production in asymmetric Cu+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare et al. Phys. Rev. C90:064908, 2014.

9. ***Cross section and transverse single-spin asymmetry of η mesons in $p^{\uparrow} + p$ collisions at $\sqrt{s} = 200$ GeV at forward rapidity.*** A. Adare et al. Phys. Rev. D90:072008, 2014.

10. Comparison of the space-time extent of the emission source in d+Au and Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare et al. Nucl. Phys. A931:1082, 2014.

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18. Azimuthal-angle dependence of charged-pion-interferometry measurements with respect to 2nd- and 3rd-order event plane in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. A. Adare et al. Phys. Rev. Lett 112:222301, 2014.

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