

## Papers by Helen Caines

1. **“ $\rho^0$  photoproduction in ultraperipheral relativistic heavy ion collisions at  $\sqrt{s_{NN}}=200$  GeV”**  
B. I. Abelev *et al.*  
Phys. Rev. C **77**, 034910 (2008)
2. **“Centrality dependence of charged hadron and strange hadron elliptic flow from  $\sqrt{s_{NN}}=200$  GeV Au+Au collisions”**  
B. I. Abelev *et al.* [STAR Collaboration]  
Phys. Rev. C **77**, 054901 (2008) [arXiv:0801.3466 [nucl-ex]]
3. **“Spin alignment measurements of the  $K^{*0}(892)$  and  $\phi(1020)$  vector mesons in heavy ion collisions at  $\sqrt{s_{NN}} = 200$  GeV”**  
B. I. Abelev *et al.* [STAR Collaboration]  
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4. **“Hadronic resonance production in  $d$ +Au collisions at  $\sqrt{s_{NN}} = 200$  GeV at RHIC”**  
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5. **“ $\rho^0$  Photoproduction in Ultra-Peripheral Relativistic Heavy Ion Collisions with STAR”**  
B. I. Abelev *et al.* [STAR Collaboration]  
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6. **“Longitudinal double-spin asymmetry for inclusive jet production in p+p collisions at  $\sqrt{s}=200$  GeV”**  
B. I. Abelev *et al.* [STAR Collaboration]  
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7. **“Forward  $\Lambda$  Production and Nuclear Stopping Power in  $d + Au$  Collisions at  $\sqrt{s_{NN}} = 200$  GeV”**  
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8. **“Measurement of Transverse Single-Spin Asymmetries for Di-Jet Production in Proton-Proton Collisions at  $\sqrt{s} = 200$  GeV”**  
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Phys. Rev. Lett. **99**, 142003 (2007) [arXiv:0705.4629 [hep-ex]]
9. **“Enhanced strange baryon production in Au+Au collisions compared to p+p at  $\sqrt{s}=200$  GeV”**  
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10. **“Global polarization measurement in Au+Au collisions”**  
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11. **“Energy dependence of  $\pi^\pm$ ,  $p$  and  $\bar{p}$  transverse momentum spectra for Au+Au collisions at  $\sqrt{s_{NN}} = 62.4$  and  $200$  GeV”**  
B. I. Abelev *et al.* [STAR Collaboration]  
Phys. Lett. B **655**, 104 (2007) [arXiv:nucl-ex/0703040]

12. **“Partonic flow and Phi-meson production in Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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13. **“Mass, quark-number, and  $s(\text{NN})^{1/2}$  dependence of the second and fourth flow harmonics in ultra-relativistic nucleus nucleus collisions”**  
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 H. Caines  
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*Prepared for Particles and Nuclei International Conference (PANIC 05), Santa Fe, New Mexico, 24-28 Oct 2005*
15. **“Rapidity and species dependence of particle production at large transverse momentum for d + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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*To appear in the proceedings of Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus-Nucleus Collisions (Hot Quarks 2006), Villasimius, Sardinia, Italy, 15-20 May 2006*
17. **“Longitudinal double-spin asymmetry and cross section for inclusive jet production in polarized proton collisions at  $s^{1/2} = 200\text{-GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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18. **“Neutral kaon interferometry in Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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19. **“Using strange hadrons as dense matter probes”**  
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*To appear in the proceedings of International Conference on Strangeness in Quark Matter (SQM2006), Los Angeles, California, 26-31 Mar 2006*
20. **“Strange particle production in p + p collisions at  $s^{1/2} = 200\text{-GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
 Phys. Rev. C **75**, 064901 (2007) [arXiv:nucl-ex/0607033]
21. **“Transverse momentum and centrality dependence of high-pt non-photonic electron suppression in Au+Au collisions at  $\sqrt{s_{NN}} = 200\text{ GeV}$ ”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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 J. Adams *et al.* [Star Collaboration]  
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 J. Adams *et al.* [STAR Collaboration]  
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24. **“Scaling Properties of Hyperon Production in Au+Au Collisions at  $\sqrt{s_{NN}}= 200$  GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
 Phys. Rev. Lett. **98**, 062301 (2007) [arXiv:nucl-ex/0606014]
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 B. I. Abelev *et al.* [STAR Collaboration]  
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 J. Adams *et al.* [STAR Collaboration]  
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27. **“Direct observation of dijets in central Au + Au collisions at  $s(NN)^{(1/2)} = 200$ -GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
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28. **“Forward neutral pion production in p+p and d+Au collisions at  $s(NN)^{(1/2)} = 200$ -GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
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29. **“Identified hadron spectra at large transverse momentum in p + p and d + Au collisions at  $s(NN)^{(1/2)} = 200$ -GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
 Phys. Lett. B **637**, 161 (2006) [arXiv:nucl-ex/0601033]
30. **“A New Comprehensive Detector For Rhic-Ii”**  
 H. Caines  
 Nucl. Instrum. Meth. B **241**, 311 (2005)  
*Prepared for 18th International Conference on the Application of Accelerators in Research and Industry (CAARI 2004), Fort Worth, Texas, 10-15 Oct 2004*
31. **“The effects of varying the correlation volume on strangeness production in high energy collisions”**  
 H. Caines [STAR Collaboration]  
 arXiv:nucl-ex/0601014  
*Contributed to 18th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions: Quark Matter 2005 (QM 2005), Budapest, Hungary, 4-9 Aug 2005*
32. **“Strangelet search at RHIC”**  
 B. I. Abelev *et al.* [STAR Collaboration]  
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34. **“Proton Lambda correlations in central Au + Au collisions at  $s(NN)^{(1/2)} = 200$ -GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
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 J. Adams *et al.* [STAR Collaboration]  
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36. **“Transverse-momentum p(t) correlations on (eta,Phi) from mean-p(t) fluctuations in Au - Au collisions at  $s(NN)^{(1/2)} = 200$ -GeV”**  
 J. Adams *et al.* [STAR Collaboration]  
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37. **“Bulk matter properties in RHIC collisions”**  
H. Caines  
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38. **“Incident energy dependence of  $p(t)$  correlations at RHIC”**  
J. Adams *et al.* [STAR Collaboration]  
Phys. Rev. C **72**, 044902 (2005) [arXiv:nucl-ex/0504031]
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arXiv:nucl-ex/0503002
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J. Adams *et al.* [STAR Collaboration]  
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43. **“Experimental and theoretical challenges in the search for the quark gluon plasma: The STAR collaboration’s critical assessment of the evidence from RHIC collisions”**  
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44. **“ $K^*(892)$  resonance production in Au + Au and p + p collisions at  $s(NN)^{1/2} = 200\text{-GeV}$  at STAR”**  
J. Adams *et al.* [STAR Collaboration]  
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H. Caines  
J. Phys. G **31**, S101 (2005) [arXiv:nucl-ex/0412016]  
*proceedings of Hot Quarks 2004: Workshop for Young Scientists on the Physics of Ultrarelativistic Nucleus-Nucleus Collisions (HQ’04), Taos Valley, New Mexico, 18-24 Jul 2004*
46. **“Volume effects on strangeness production”**  
H. Caines [STAR Collaboration]  
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47. **“Pion interferometry in Au + Au collisions at  $s(NN)^{1/2} = 200\text{-GeV}$ ”**  
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48. **“Minijet deformation and charge-independent angular correlations on momentum subspace ( $\eta$ ,  $\phi$ ) in Au-Au collisions at  $s(NN)^{1/2} = 130\text{-GeV}$ ”**  
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50. **“Pseudorapidity asymmetry and centrality dependence of charged hadron spectra in d + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
 Phys. Rev. C **70**, 064907 (2004) [arXiv:nucl-ex/0408016]
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 J. Adams *et al.* [STAR Collaboration]  
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 J. Adams *et al.* [STAR Collaboration]  
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55. **“Transverse-momentum dependent modification of dynamic texture in central Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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58. **“Centrality and pseudorapidity dependence of charged hadron production at intermediate  $p(\text{T})$  in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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59. **“Production of  $e^+ e^-$  pairs accompanied by nuclear dissociation in ultra-peripheral heavy ion collision”**  
 J. Adams *et al.* [STAR Collaboration]  
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60. **“An update from STAR - using strangeness to probe relativistic heavy ion collisions”**  
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*Prepared for 7th International Conference on Strangeness in Quark Matter (SQM 2003), Atlantic Beach, North Carolina, 12-17 Mar 2003*
61. **“Photon and neutral pion production in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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62. **“Azimuthally sensitive HBT in Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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63. **“Cross sections and transverse single-spin asymmetries in forward neutral pion production from proton collisions at  $s^{*}(1/2) = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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64. **“Azimuthal anisotropy at RHIC: The first and fourth harmonics”**  
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65. **“Update on the STAR silicon vertex tracker”**  
 H. Caines  
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*Prepared for 11th International Workshop on Vertex Detectors (Vertex 2002), Kona, Kailua, Hawaii, 3-8 Nov 2002*
66. **“Identified particle distributions in p p and Au + Au collisions at  $s^{*}(1/2) = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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67. **“Pion, kaon, proton and anti-proton transverse momentum distributions from p + p and d + Au collisions at  $s(\text{NN})^{*}(1/2) = 200\text{-GeV}$ ”**  
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68. **“The STAR silicon vertex tracker: A large area silicon drift detector”**  
 R. Bellwied *et al.* [STAR Collaboration]  
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70. **“Event-by-event fluctuations in Au Au collisions at  $s(\text{NN})^{*}(1/2) = 130\text{-GeV}$ ”**  
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71. **“Pion kaon correlations in Au + Au collisions at  $s(\text{NN})^{*}(1/2) = 130\text{-GeV}$ ”**  
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72. **“Multi-strange baryon production in Au Au collisions at  $s(\text{NN})^{*}(1/2) = 130\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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73. **“rho0 production and possible modification in Au + Au and p + p collisions at  $s(\text{NN})^{*}(1/2) = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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74. **“Multiplicity fluctuations in Au + Au collisions at  $s(\text{NN})^{*}(1/2) = 130\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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75. **“Rapidity and centrality dependence of proton and anti-proton production from Au-197 + Au-197 collisions at  $s(\text{NN})^{*}(1/2) = 130\text{-GeV}$ ”**  
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76. **“Three-pion HBT correlations in relativistic heavy-ion collisions from the STAR experiment”**  
 J. Adams *et al.* [STAR Collaboration]  
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77. **“Evidence from d + Au measurements for final-state suppression of high p(T) hadrons in Au + Au collisions at RHIC”**  
 J. Adams *et al.* [STAR Collaboration]  
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78. **“STAR results from the first year at RHIC”**  
 H. Caines [STAR Collaboration]  
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79. **“Particle dependence of azimuthal anisotropy and nuclear modification of particle production at moderate p(T) in Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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80. **“Transverse momentum and collision energy dependence of high p(T) hadron suppression in Au + Au collisions at ultrarelativistic energies”**  
 J. Adams *et al.* [STAR Collaboration]  
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81. **“Narrowing of the balance function with centrality in Au + Au collisions  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
 J. Adams *et al.* [STAR Collaboration]  
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82. **“Strangeness production in relativistic heavy ion reactions at the AGS”**  
 H. Caines  
*Prepared for Workshop on Strange Quarks in Hadrons, Nuclei, and Nuclear Matter, Athens, Ohio, 12-13 May 2000*
83. **“Strange anti-particle to particle ratios at mid-rapidity in  $s(\text{NN})^{1/2} = 130\text{-GeV}$  Au + Au collisions”**  
 J. Adams *et al.* [STAR Collaboration]  
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84. **“Disappearance of back-to-back high p(T) hadron correlations in central Au + Au collisions at  $s(\text{NN})^{1/2} = 200\text{-GeV}$ ”**  
 C. Adler *et al.* [STAR Collaboration]  
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85. **“Distributed drift chamber design for rare particle detection in relativistic heavy ion collisions”**  
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86. **“Centrality dependence of high p(T) hadron suppression in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
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87. **“Kaon production and kaon to pion ratio in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
 C. Adler *et al.* [STAR Collaboration]  
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88. **“Azimuthal anisotropy and correlations in the hard scattering regime at RHIC”**  
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89. **“Coherent rho0 production in ultra-peripheral heavy ion collisions”**  
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90. **“Elliptic flow from two- and four-particle correlations in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
C. Adler *et al.* [STAR Collaboration]  
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91. **“K\*(892)0 production in relativistic heavy ion collisions at  $S(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
C. Adler *et al.* [STAR Collaboration]  
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92. **“Azimuthal anisotropy of K0(S) and Lambda + anti-Lambda production at mid-rapidity from Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
C. Adler *et al.* [STAR Collaboration]  
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93. **“The silicon drift vertex detector for the STAR experiment at RHIC”**  
S. U. Pandey *et al.*  
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*Prepared for 5th International Conference on Position Sensitive Detectors (PSD 5), London, England, 13-17 Sep 1999*
94. **“Midrapidity phi production in Au+Au collisions at  $s\text{NN} = 130\text{ GeV}$ ”**  
C. Adler *et al.* [STAR Collaboration]  
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95. **“Lambda spectra in 11.6-A-GeV/c Au Au collisions”**  
S. Albergo *et al.*  
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96. **“Light nuclei production in heavy-ion collisions at relativistic energies”**  
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97. **“Mid-rapidity Lambda and Antilambda production in Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
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98. **“Strangeness production at RHIC”**  
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*Prepared for 15th International Conference on Ultrarelativistic Nucleus-Nucleus Collisions (QM2001), Stony Brook, New York, 15-20 Jan 2001*
99. **“Measurement of inclusive antiprotons from Au + Au collisions at  $s(\text{NN})^{1/2} = 130\text{-GeV}$ ”**  
C. Adler *et al.* [STAR Collaboration]  
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