

**PAPERS PUBLISHED**  
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**Giant resonances in  $^{116}\text{Sn}$  from 240 MeV  $^6\text{Li}$  scattering**, X. Chen, Y.-W. Lui, H.L. Clark, Y. Tokimoto, and D.H. Youngblood, Phys. Rev. C **79**, 024320 (2009).

**Astrophysical S factor for the radiative capture  $^{12}\text{N}(\text{p},\gamma)^{13}\text{O}$  determined from the  $^{14}\text{N}(^{12}\text{N},^{13}\text{O})^{13}\text{C}$  proton transfer reaction**, A. Banu, T. Al-Abdullah, C. Fu, C.A. Gagliardi, R.E. Tribble, Y. Zhai, F. Carstoiu, V. Burjan, and V. Kroha, Phys Rev C **79**, 025805 (2009).

**A new astrophysical S factor for the  $^{15}\text{N}(\text{p},\gamma)^{16}\text{O}$  reaction via the ANC method**, A.M. Mukhamedzhanov, P. Bem, V. Burjan, C.A. Gagliardi, Z. Hons, M. La Cognata, V. Kroha, J. Mrazek, J. Novak, S. Piskor, R.G. Pizzone, A. Plunkett, S. Romano, E. Simeckova, C. Spitaleri, L. Trache, R.E. Tribble, F. Vesely, and J. Vincour, Phys. Rev. C **78**, 015804 (2008).

**Performance evaluation of novel square-bordered position-sensitive silicon detectors with four-corner readout**, A. Banu, Y. Li, M. McCleskey, M. Bullough, S. Walsh, C.A. Gagliardi, L. Trache, R.E. Tribble, and C. Wilburn, Nucl. Instrum. Methods Phys. Res. **A593**, 399 (2008).

**First observation of a cluster states in the  $^{14}\text{O} + ^4\text{He}$  interaction**, Changbo Fu, V.Z. Goldberg, G.V. Rogachev, G. Tabacaru, G.G. Chubarian, B. Skorodumov, M. McClesky, Y. Zhai, T. Al-Abdullah, L. Trache, and R.E. Tribble, Phys. Rev. C **77**, 064314 (2008).

**Precise half-life measurement of the superallowed  $\beta^+$  emitter  $^{10}\text{C}$** , V.E. Iacob, J.C. Hardy, V. Golovko, J. Goodwin, N. Nica, H.I. Park, L. Trache, and R.E. Tribble, Phys. Rev. C **77**, 045501 (2008).

**Correlated two-proton decay from  $^{10}\text{C}$** , K. Mercurio, R.J. Charity, R. Shane, L.G. Sobotka, J.M. Elson, M. Famiano, A.H. Wousmaa, A. Banu, C. Fu, L. Trache, R.E. Tribble, and A.M. Mukhamedzhanov, Phys. Rev. C **78**, 032801 (2008).

**Measurement of the 20 and 90 keV resonances in the  $^{18}\text{O}(\text{p},\alpha)^{15}\text{N}$  reaction via THM**, M. La Cognata, C. Spitaleri, A.M. Mukhamedzhanov, B. Irgaziev, R.E. Tribble, A. Banu, S. Cherubini, A. Coc, V. Crucilla, V. Goldber, Mu. Gulino, G.G. Kiss, L. Lamia, J. Mrazek, R.G. Pizzone, S.M.R. Puglia, G.G. Rapisarda, S. Romano, M.L. Sergi, G. Tabacaru, L. Trache, W. Trzaska, and A. Tumino, Phys. Rev. Lett. **101**, 152501 (2008).

**$Q_{\text{EC}}$  values of the superallowed  $\beta$  emitters  $^{50}\text{Mn}$  and  $^{54}\text{Co}$** , T. Eronen, V.-V. Elomaa, U. Hager, J. Hakala, J.C. Hardy, A. Jokinen, A. Kankainen, I.D. Moore, H. Penttila, S. Rahaman, S. Rinta-Antila, J. Rissanen, A. Saastamoinen, T. Sonoda, C. Weber and J. Aysto, Phys. Rev. Lett. **100**, 132502 (2008).

**Precise tests of the internal-conversion theory**, J.C. Hardy, N. Nica, V.E. Iacob, C. Balonek and M.B. Trzhaskovskaya, Appl. Radiat. Isot. **66**, 701 (2008).

**The use of GEANT4 for simulations of a plastic  $\beta$ -detector and its application to efficiency calibration**, V.V. Golovko, V.E. Iacob and J.C. Hardy, Nucl. Instrum. Methods Phys. Res. **A594**, 266 (2008).

**New calculations of the isospin-symmetry-breaking correction to superallowed Fermi beta decay**, I.S. Towner and J.C. Hardy in *Rare Isotopes and Fundamental Symmetries*, Proceedings from the Institute for Nuclear Theory Vol. **16**, (World Scientific, Singapore, 2009) p. 51.

**Superallowed nuclear beta decay: recent results and their impact on  $V_{ud}$** , J.C. Hardy and I.S. Towner in *Rare Isotopes and Fundamental Symmetries*, Proceedings from the Institute for Nuclear Theory Vol. **16**, (World Scientific, Singapore, 2009) p. 41.

**Probing the standard model with superallowed nuclear beta decay**, J.C. Hardy and I.S. Towner in *Karlsruher Nuklidkarte: Commemoration of the 50<sup>th</sup> Anniversary*, edited by G. Pfennig, C. Normand, J. Magill and T. Fanghanel (Publications of the European Communities, Luxembourg, 2008) p. 116.

**Superallowed beta decay: the role of nuclear structure in standard-model tests**, J.C. Hardy and I.S. Towner, Acta Physica Polonica B **40**, 675 (2009).

**Photodisintegration of  $^{80}\text{Se}$ : implications for the s-process branching at  $^{79}\text{Se}$** , A. Makinaga, H. Utsunomiya, S. GGoriely, T. Kaihori, S. Goko, H. Akimune, T. Yamagata, H. Toyokawa, T. Matsumoto, H. Harano, H. Harada, F. Kitatani, Y.K. Hara, S. Hohara, and Y.-W. Lui, Phys. Rev. C **79**, 025801 (2009).

**M1  $\gamma$  strength for Zirconium nuclei in the photoneutron channel**, H. Utsunomiya, S. Goriely, T. Kono, T. Kaihori, A. Makinaga, S. Goko, H. Akimune, T. Yamagata, H. Toyokawa, T. Matsumoto, H. Harano, S. Hohara, Y.-W. Lui, S. Hilaire, S. Peru, and A.J. Koning, Phys. Rev. Lett. **100**, 162502 (2008).

**T = 3/2 states in  $^{13}\text{C}$** , B.B. Skorodumov, G.V. Rogachev, A. Aprahamian, V.Z. Goldberg, J.J. Kolata, S. Almaraz, H. Amro, E.D. Johnson, L.O. Lamm, M. Quinn, A. Teymurazyan, and A. Woehr Phys. Rev. C **78**, 044603 (2008).

**Search for the Pygmy dipole resonance in  $^{68}\text{Ni}$  at 600 MeV/nucleon**, O. Wieland, A. Bracco, F. Camera, G. Benzoni, N. Blasi, S. Brambilla, F.C.L. Crespi, S. Leoni, B. Million, R. Nicolini, A. Maj, P. Bednarczyk, J. Grebosz, M. Kmiecik, W. Meczynski, J. Styczen, and T. Aumann, Phys. Rev. Lett. **102**, 092502 (2009).

**Tensor interaction constraints from  $\beta$  decay recoil spin asymmetry of trapped atoms**, J.R.A. Pitcairn, D. Roberge, A. Gorelov, D. Ashery, O. Aviv, J.A. Behr, P.G. Bricault, M. Dombsky, J.D. Holt, K.P. Jackson, B. Lee, M.R. Pearson, A. Gaudin, B. Dej, C. Höhr, G. Gwinner, and D. Melconian, Phys. Rev. C **79**, 015501 (2009).

**First measurement of the neutron asymmetry with ultracold neutrons**, R.W. Pattie, Jr., J. Anaya, H.O. Back, J.G. Boissevain, T.J. Bowles, L.J. Broussard, R. Carr, D.J. Clark, S. Currie, S. Du, B.W. Filippone, P. Geltenbort, A. García, A. Hawari, K.P. Hickerson, R. Hill, M. Hino, S.A. Hoedl, G.E. Hogan, A.T. Holley, T.M. Ito, T. Kawai, K. Kirch, S. Kitagaki, S.K. Lamoreaux, C.-Y. Liu, J. Liu, M. Makela, R.R. Mammei, J.W. Martin, D. Melconian, N. Meier, M.P. Mendenhall, C.L. Morris, R. Mortensen, A. Pichlmaier, M.L. Pitt, B. Plaster, J.C. Ramsey, R. Rios, K. Sabourov, A.L. Sallaska, A. Saunders, R. Schmid, S. Seestrom, C. Servicky, S.K.L. Sjue, D. Smith, W.E. Sondheim, E. Tatar, W. Teasdale, C. Terai, B. Tipton, M. Utsuro, R.B. Vogelaar, B.W. Wehring, Y.P. Xu, A.R. Young, and J. Yuan, Phys. Rev. Letts. **102**, 012301 (2009).

**Electron-capture branch of  $^{100}\text{Tc}$  and tests of nuclear wave functions for double- $\beta$  decays**, S.K.L. Sjue, D. Melconian, A. García, I. Ahmad, A. Algora, J. Åystö, V.-V. Elomaa, T. Eronen, J. Hakala, S. Hoedl, A. Kankainen, T. Kessler, I.D. Moore, F. Naab, H. Penttilä, S. Rahaman, A. Saastamoinen, H.E. Swanson, C. Weber, S. Triambak, and K. Deryckx, Phys. Rev. C **78**, 064317 (2008).

**$ft$  value of the  $0^+ \rightarrow 0^+$   $\beta$  decay of  $^{32}\text{Ar}$ : A measurement of isospin symmetry breaking in a superallowed decay**, M. Bhattacharya, D. Melconian, A. Komives, S. Triambak, A. García, E.G. Adelberger, B.A. Brown, M.W. Cooper, T. Glasmacher, V. Guimaraes, P.F. Mantica, A.M. Oros-Peusquens, J.I. Prisciandaro, M. Steiner, H.E. Swanson, S.L. Tabor, and M. Wiedeking, Phys. Rev. C **77**, 065503 (2008).

**Neutron-rich rare isotope production in the Fermi energy domain and application to the Texas A&M radioactive beam upgrade**, G.A. Souliotis, B. Stein, M. Veselsky, S. Galanopoulos, A.L. Keksis, Z. Kohley, D.V. Shetty, S.N. Soisson, S. Wuenschel, and S.J. Yennello, Nucl. Instrum. Methods Phys. Res. **B266**, 4692 (2008).

**Effective nucleon mass and the nuclear caloric curve**, D.V. Shetty, G.A. Souliotis, S. Galanopoulos, and S.J. Yennello, Phys. Rev. C **79**, 034603 (2009).

**Nuclear Expansion and Symmetry Energy of Hot Nuclei**, D.V. Shetty, G.A. Souliotis, S. Galanopoulos, Z. Kohley, S.N. Soisson, B.C. Stein, S. Wuenschel, and S.J. Yennello, J. Phys. G **36**, 075103 (2008).

**How Stable are the Heaviest Nuclei**, J.B. Natowitz, Physics **1**, 12 (2008).

**Effect of medium dependent binding energies on inferring the temperatures and freeze-out density of disassembling hot nuclear matter from cluster yields**, S. Shlomo, G. Röpke, J.B. Natowitz, L. Qin, K. Hagel, R. Wada, and A. Bonasera., Phys. Rev. C **79**, 034604 (2009).

**The quantum nature of a nuclear phase transition**, A. Bonasera, Z. Chen, R. Wada, K. Hagel, J.B. Natowitz, P. Sahu, L. Qin, S. Kowalski, T. Keutgen, T. Materna, and T. Nakagawa, Phys. Rev. Lett. **101** (2008) 122702.

**Soft fragmentation of carbon monoxide by slow highly charged ions**, E. Wells, T. Nishede, H. Tawara, R.L. Watson, K.D. Carnes, and I. Ben-Itzhak, Phys. Rev. A **77**, 064701 (2008).

**K $\alpha$  x-ray satellite and hypersatellite spectra of vanadium metal and oxides excited in heavy-ion collisions**, R.L. Watson, V. Horvat, and Y. Peng, Phys. Rev. A **78**, 062702 (2008).

**rp process and masses of N  $\approx$  Z  $\approx$  34 nuclides**, J. Savory, P. Schury, C. Bachelet, M. Block, G. Bollen, M. Facina, C.M. Folden III, C. Guénaut, E. Kwan, A.A. Kwiatkowski, D.J. Morrissey, G.K. Pang, A. Prinke, R. Ringle, H. Schatz, S. Schwarz, and C.S. Sumithrarachchi, Phys. Rev. Lett. **102**, 132501 (2009).

**Measurement of the  $^{208}\text{Pb}(^{52}\text{Cr}, \text{n})^{259}\text{Sg}$  excitation function**, C.M. Folden III, I. Dragojević, Ch.E. Düllmann, R. Eichler, M.A. Garcia, J.M. Gates, S. L. Nelson, R. Sudowe, K.E. Gregorich, D.C. Hoffman, and H. Nitsche, Phys. Rev. C **79**, 027602 (2009).

**Charged particle transport and extraction studies in the NSCL gas cell for stopping radioactive fragments**, M. Facina, C. Bachelet, M. Block, G. Bollen, D. Davies, C.M. Folden III, C. Guenaut, J. Huikari, E. Kwan, D.J. Morrissey, G.K. Pang, A. Prinke, R. Ringle, J. Savory, P. Schury, S. Schwarz, C. Sumithrarachchi, and T. Sun, Nucl. Instrum. Methods Phys. Res. **B266**, 4471 (2008).

**Mass measurements of rare isotopes with the LEBIT facility at the NSCL**, M. Block, C. Bachelet, G. Bollen, M. Facina, C.M. Folden III, C. Guénaut, A.A. Kwiatkowski, D.J. Morrissey, G.K. Pang, A. Prinke, R. Ringle, J. Savory, P. Schury, and S. Schwarz, Nucl. Instrum. Methods Phys. Res. **B266**, 4521 (2008).

**Comparison of reactions for the production of  $^{258,257}\text{Db}$ :  $^{208}\text{Pb}(^{51}\text{V},\text{xn})$  and  $^{209}\text{Bi}(^{50}\text{Ti},\text{xn})$** , J.M. Gates, S.L. Nelson, K.E. Gregorich, I. Dragojević, Ch.E. Düllmann, P.A. Ellison, C.M. Folden III, M.A. Garcia, L. Stavsetra, R. Sudowe, D.C. Hoffman, and H. Nitsche, Phys. Rev. C **78**, 034604 (2008).

**Comparison of complementary reactions for the production of  $^{261,262}\text{Bh}$** , S.L. Nelson, C.M. Folden III, K.E. Gregorich, I. Dragojević, Ch.E. Düllmann, R. Eichler, M.A. Garcia, J.M. Gates, R. Sudowe, and H. Nitsche, Phys. Rev. C **78**, 024606 (2008).

**K $\alpha$  satellite and hypersatellite distributions of Ar excited in heavy-ion collisions**, V. Horvat, R.L. Watson, and Y. Peng, Phys. Rev. A **79**, 012708 (2009).

**Off-energy-shell p-p scattering at sub-Coulomb energies via the Trojan horse method**, A. Tumino, C. Spitaleri , A.M. Mukhamedzhanov , G.G. Rapisarda, L. Campajola , S. Cherubini, S. Crucilla, Z. Elekes , Z. Fulop, M. Gulino , G. Gyurky, G. Kiss, M. La Cognata, L. Lamia, A. Ordine , R.G. Pizzone, S. Romano, M.L. Sergi , and E. Somorjai, Phys. Rev. C **78**, 064001 (2008).

**Coulomb breakup problem**, A.S. Kadyrov, I. Bray, A.M. Mukhamedzhanov, and A.T. Stelbovics, Phys. Rev. Lett., **101**, 230405 (2008).

**Completeness of the Coulomb scattering wave functions**, A.M. Mukhamedzhanov and M. Akin, Eur. Phys. J. A **37**, 185 (2008).

**Benchmark on neutron capture extracted from (d,p) reactions**, A.M. Mukhamedzhanov, F.M. Nunes and P. Mohr, Phys. Rev. C **77**, 051601(R) (2008).

**Zero-point oscillations and nuclear charge radii**, Tapas Sil and S. Shlomo, Physica Scripta **76**, 065202 (2008).

**Mean-field approximation for finite nuclei and nuclear matter**, S. Shlomo, Nucl. Phys. At. Energy **9**, #3 (25), 7 (2008).

**Nucleon and  $\Delta$  resonances in  $K\Sigma(1385)$  photoproduction from nucleons**, Y. Oh, C.M. Ko, and K. Nakayama, Phys. Rev. C **77**, 045204 (2008).

**Heavy ion collisions at LHC - last call for predictions**, S.A. Abreu *et al.*, and C.M. Ko, J. Phys. G **35**, 05400 (2008).

**Determining the density dependence of the nuclear symmetry energy using heavy ion collisions**, L.W. Chen, C.M. Ko, B.A. Li, and G.C. Yong, Int. J. Mod. Phys. **17**, 1825 (2008).

**$\Lambda_c$  enhancement from the strongly coupled quark-gluon plasma**, S.H. Lee, K. Ohnishi, S. Yasui, I.K. Yoo, and C.M. Ko, Phys. Rev. Lett. **100**, 222301 (2008).

**Studying diquark structure of heavy baryons in relativistic heavy ion collisions**, S. Yasui, S.H. Lee, K. Ohnishi, I.K. Yoo, and C.M. Ko, Mod. Phys. Lett. A **23**, 27 (2008).

**Recent progress and new challenges in isospin physics with heavy-ion reactions**, B.A. Li, L.W. Chen, and C.M. Ko, Phys. Rep. **464**, 113 (2008).

**Ratios of heavy baryons to heavy mesons in relativistic nucleus-nucleus collisions**, Y. Oh, C.M. Ko, S.H. Lee, and S. Yasui, Phys. Rev. C **79**, 044905 (2009).

**Cross-sections and beam asymmetries for  $K^+\Sigma^*$  - photoproduction from the deuteron at  $E_\gamma = 1.5 - 2.4$  GeV**, K. Hicks *et al.* (for LEPS Collaboration), Phys. Rev. Lett. **102**, 012501 (2009).

**Electromagnetic probes at RHIC-II**, G. David, R. Rapp, and Z. Xu, Phys. Rep. **462**, 176 (2008).

**Nonperturbative heavy-quark diffusion in the quark-gluon plasma**, H. van Hees, M. Mannarelli, V. Greco, and R. Rapp, Phys. Rev. Lett. **100**, 192301 (2008).

**Heavy-ion collisions at the LHC – last call for predictions**, S. Abreu *et al.*, J. Phys. G **35**, 054001 (2008).

**Dilepton radiation at the CERN super proton synchrotron**, H. van Hees and R. Rapp, Nucl. Phys. **A806**, 339 (2008).

**Transverse momentum spectra of J/psi in heavy-ion collisions**, X. Zhao and R. Rapp, Phys. Lett. B **664**, 253 (2008).

**Heavy ion collisions at the LHC - last call for predictions**, N. Armesto *et al.*, J. Phys. G **35**, 054001 (2008).

**Photon bremsstrahlung and diffusive broadening of a hard jet**, A. Majumder, R.J. Fries, and B. Muller, Phys. Rev. C **77**, 065209 (2008).

**Quark and gluon degrees of freedom in high-energy heavy ion collisions**, R.J. Fries, Nucl. Phys. **A805**, 242 (2008).

**Probing nuclear matter with jet conversions**, W. Liu and R.J. Fries, Phys. Rev. C **77**, 054902 (2008).

**Heavy quark production from jet conversions in a quark-gluon plasma**, W. Liu and R.J. Fries, Phys. Rev. C **78**, 037902 (2008).

**Decoherence and entropy production in relativistic nuclear collisions**, Rainer J. Fries, Berndt Muller, and Andreas Schafer, Phys. Rev. C **79**, 034904 (2009).

**Stress tensor and bulk viscosity in relativistic nuclear collisions**, Rainer J. Fries, Berndt Muller, and Andreas Schafer, Phys. Rev. C **78**, 034913 (2008).

**Coalescence models for hadron formation from quark gluon plasma**, Rainer J. Fries, Vincenzo Greco and Paul Sorensen, Ann. Rev. Nucl. Part. Sci. **58**, 177 (2008).

**Observation of two-source interference in the photoproduction reaction  $\text{AuAu} \rightarrow \text{AuAu}^0$** , B.I. Abelev *et al.* (Star Collaboration), Phys. Rev. Lett. **102**, 112301 (2009).

**Systematic measurements of identified particle spectra in  $p\bar{p}$ ,  $d+\text{Au}$  and  $\text{Au}+\text{Au}$  collisions at the STAR detector**, B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. C **79**, 034909 (2009).

**Beam-energy and system-size dependence of dynamical net charge fluctuations**, B.I. Abelev *et al.* (Star Collaboration), Phys. Rev. C **79**, 024906 (2009).

**System-size independence of directed flow at the Relativistic Heavy-Ion Collider**, B.I. Abelev *et al.* (Star Collaboration), Phys. Rev. Lett. **101**, 252301 (2008).

**A precision measurement of the muon decay parameter  $\rho$  and  $\delta$** , R.P. McDonal, R. Bayes, J. Bueno, Yu.I Davydov, P. Depommier, W. Faszer, M.C. Fujiwara, C.A. Gagliardi, A. Gaponenko, D.R. Gill, A. Grossheim, P. Gumplinger, M.D. Hasinoff, R.S. Henderson, A. Hillairet, J. Hu, B. Jamieson, P. Kitching, D.D. Koetke, G.M. Marshall, E.L. Mathie, R.E. Mischke, J.R. Musser, M. Nozar, K. Olchanski, A. Olin, R. Openshaw, J.-M. Poutissou, R. Poutissou, M.A. Quraan, V. Selivanov, G. Sheffer, B. Shin, T.D.S. Stanislaus, R. Tacik, R.E. Tribble, Phys. Rev. D **78**, 032010 (2008).

**Indications of conical emission of charged hadrons at RHIC**, B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. Lett. **102**, 052302 (2009).

**Spin alignment measurements of the  $K^{*0}(892)$  and  $\phi(1020)$  vector meson in heavy ion collisions at  $\sqrt{s_{NN}} = 200 \text{ GeV}$** , B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. C **77**, 061902R (2008).

**Forward neutral pion transverse single spin asymmetries in  $p+p$  collisions at  $\sqrt{s_{NN}} = 200 \text{ GeV}$** , B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. Lett. **101**, 222001 (2008).

**Hadronic resonance production in  $d+\text{Au}$  collisions at 200 GeV at RHIC  $\sqrt{s_{NN}} = 200 \text{ GeV}$** , B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. C **78**, 044906 (2008).

**Centrality dependence of charged hadron and strange hadron elliptic flow form  $\sqrt{s_{NN}} = 200 \text{ GeV}$  Au+Au collisions**, B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. C **77**, 054901 (2008).

**Longitudinal double-spin asymmetry for inclusive jet production in  $\vec{p} + \vec{p}$  collisions at  $\sqrt{s_{NN}} = 200 \text{ GeV}$** , B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. Lett. **100**, 232003 (2008).

**Enhanced strange baryon production Au+Au collisions compared to p+p at  $\sqrt{s_{NN}} = 200$  GeV**, B.I. Abelev *et al.* (STAR Collaboration), Phys. Rev. C **77**, 044908 (2008).

**Energy and system size dependence of phi meson production in Cu+Cu and Au+Au collisions**, B.I. Abelev *et al.* (STAR Collaboration), Phys. Lett. B **673**, 183 (2009).

**Charged hadron multiplicity fluctuations in Au+Au and Cu+Cu collisions from  $\sqrt(s_{NN}) = 22.5$  to 200 GeV**, A. Adare *et al.* (PHENIX Collaboration), Phys. Rev. C **78**, 044902 (2008).

**Dilepton mass spectra in p+p collisions at  $\sqrt{s} = 200$  GeV and the contribution from open charm**, A. Adare *et al.* (PHENIX Collaboration), Phys. Lett. B **670**, 313 (2009).

**J/ψ production in  $\sqrt(s_{NN}) = 200$  GeV Cu+Cu Collisions**, A. Adare *et al.* (PHENIX Collaboration), Phys. Rev. Lett. **101**, 122301 (2008).

**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.* (PHENIX Collaboration), Phys. Rev. C **77**, 064907 (2008).

**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.* (PHENIX Collaboration), Phys. Rev. Lett. **101**, 232301 (2008).

**Dihadron azimuthal correlations in Au+Au collisions at  $\sqrt(s_{NN}) = 200$  GeV**, A. Adare *et al.* (PHENIX Collaboration), Phys. Rev. C **78**, 014901 (2008).

**Onset of  $\pi^0$  Suppression Studied in Cu+Cu Collisions at  $\sqrt(s_{NN}) = 22.4$ , 62.4, and 200 GeV**, A. Adare *et al.* (PHENIX Collaboration), Phys. Rev. Lett. **101**, 162301 (2008).

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

**Source breakup dynamics in Au+Au Collisions at  $\sqrt(s_{NN}) = 200$  GeV via three-dimensional two-pion source imaging**, S. Afanasiev *et al.* (PHENIX Collaboration), Phys. Rev. Lett. **100**, 232301 (2008).

**Single transverse spin asymmetries of identified charged hadrons in polarized p+p collisions at  $\sqrt{s} = 62.4$  GeV**, I. Arsene, I.G. Bearden, D. Beavis, S. Bekele, C. Besliu, B. Budick, H. Bøggild, C. Chasman, H.H. Dalsgaard, R. Debbe, B. Fox, J.J. Gaardhøje, K. Hagel, A. Jipa, E.B. Johnson, R. Karabowicz, N. Katrynska, E.J. Kim, T.M. Larsen, J.H. Lee, G. Løvhøiden, Z. Majka, M. Murray, C. Nygaard, J.B. Natowitz, B.S. Nielsen, D. Pal, A. Qviler, C. Ristea, D. Röhrlrich, S.J. Sanders, P. Staszek, T.S. Tveter, F. Videbæk, H. Yang and R. Wada, Phys. Rev. Lett. **101**, 042001 (2008).