

Published Journal Articles of the Physics Division, July-December 2009

Coherent Contributions to Isospin Mixing in the Mirror Pair ^{67}As and ^{67}Se

R. Orlandi, G. de Angelis, P. G. Bizzeti, S. Lunardi, A. Gadea, A. M. Bizzeti-Sona, A. Bracco, F. Brandolini, M. P. Carpenter, C. J. Chiara, F. Della Vedova, E. Farnea, J. P. Greene, S. M. Lenzi, S. Leoni, C. J. Lister, N. Mărginean, D. Mengoni, D. R. Napoli, B. S. Nara Singh, O. L. Pechenaya, F. Recchia, W. Reviol, E. Sahin, D. G. Sarantites, D. Seweryniak, D. Tonev, C. A. Ur, J. J. Valiente-Dobón, R. Wadsworth, K. T. Wiedemann, and S. Zhu
Phys. Rev. Lett. **103**, 052501/1-4 (2009)

Comment on “Hypersharp Resonant Capture of Neutrinos as a Laboratory Probe of the Planck Length”

J. P. Schiffer
Phys. Rev. Lett. **103**, 099102/1 (2009)

Observation of the Naive- T -Odd Sivers Effect in Deep-Inelastic Scattering

A. Airapetian *et al.* (HERMES Collaboration)
Phys. Rev. Lett. **103**, 152002/1-5 (2009)

Precise Electromagnetic Tests of *Ab-Initio* Calculations of Light Nuclei: States in ^{10}Be

E. A. McCutchan, C. J. Lister, R. B. Wiringa, Steven C. Pieper, D. Seweryniak, J. P. Greene, M. P. Carpenter, C. J. Chiara, R. V. F. Janssens, T. L. Khoo, T. Lauritsen, I. Stefanescu, and S. Zhu
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Dark Matter, Constrained Minimal Supersymmetric Standard Model, and Lattice QCD

Joel Giedt, Anthony W. Thomas, and Ross D. Young
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New Measurements of the European Muon Collaboration Effect in Very Light Nuclei

J. Seely *et al.*
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High-Resolution Spectroscopy of $^{16}_{\Lambda}\text{N}$ by Electroproduction

F. Cusanno *et al.* (Jefferson Lab Hall A Collaboration)
Phys. Rev. Lett. **103**, 202501/1-5 (2009)

Evolution of the One-Phonon $2^+_{1,ms}$ Mixed-Symmetry State in $N = 80$ Isotones as a Local Measure for the Proton-Neutron Quadrupole Interaction

T. Ahn, L. Coquard, N. Pietralla, G. Rainovski, A. Costin, R. V. F. Janssens, C. L. Lister, M. Carpenter, S. Zhu, and K. Heyde
Phys. Lett. **B679**, 19-24 (2009)

Exclusive ρ^0 Electroproduction on Transversely Polarized Protons

A. Airapetian *et al.* (HERMES Collaboration)
Phys. Lett. **B679**, 100-105 (2009)

Dynamic Polarization in the Coulomb Breakup of Loosely Bound ^{17}F

J. F. Liang, J. R. Beene, A. L. Caraley, H. Esbensen, A. Galindo-Uribarri, C. J. Gross, P. E. Mueller, K. T. Schmitt, D. Shapira, D. W. Stracener, and R. L. Varner
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Parity Doubling in ^{219}Th and the Onset of Collectivity Above $N = 126$

W. Reviol, D. G. Sarantites, C. J. Chiara, M. Montero, R. V. F. Janssens, M. P. Carpenter, T. L. Khoo, T. Lauritsen, C. J. Lister, D. Seweryniak, S. Zhu, O. L. Pechenaya, and S. G. Frauendorf
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Scaling Properties in Bulk and p_T -Dependent Particle Production Near Midrapidity in Relativistic Heavy Ion Collisions

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D. J. Hartley, R. V. F. Janssens, L. L. Riedinger, M. A. Riley, A. Aguilar, M. P. Carpenter, C. J. Chiara, P. Chowdhury, I. G. Darby, U. Garg, Q. A. Ijaz, F. G. Kondev, S. Lakshmi, T. Lauritsen, A. Ludington, W. C. Ma, E. A. McCutchan, S. Mukhopadhyay, R. Pifer, E. P. Seyfried, I. Stefanescu, S. K. Tandel, U. Tandel, J. R. Vanhoy, X. Wang, S. Zhu, I. Hamamoto, and S. Frauendorf
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L. Coquard, N. Pietralla, T. Ahn, G. Rainovski, L. Bettermann, M. P. Carpenter, R. V. F. Janssens, J. Leske, C. J. Lister, O. Möller, W. Rother, V. Werner, and S. Zhu
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Multi-Quasiparticle Isomers in ^{174}Lu

F. G. Kondev, G. D. Dracoulis, G. J. Lane, I. Ahmad, A. P. Byrne, M. P. Carpenter, P. Chowdhury, R. V. F. Janssens, T. Kibédi, T. Lauritsen, C. J. Lister, D. Seweryniak, S. K. Tandel, and S. Zhu
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Thorough γ -Ray and Particle Decay Investigations of ^{58}Ni

E. K. Johansson, D. Rudolph, I. Ragnarsson, L.-L. Andersson, D. A. Torres, C. Andreoiu, C. Baktash, M. P. Carpenter, R. J. Charity, C. J. Chiara, J. Ekman, C. Fahlander, O. L. Pechenaya, W. Reviol, R. du Rietz, D. G. Sarantites, D. Seweryniak, L. G. Sobotka, C. H. Yu, and S. Zhu
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Two-Quasiparticle Isomers and Bands of $^{154,156}\text{Nd}$ and $^{156,158,160}\text{Sm}$

G. S. Simpson, W. Urban, J. Genevey, R. Orlandi, J. A. Pinston, A. Scherillo, A. G. Smith, J. F. Smith, I. Ahmad, and J. P. Greene
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High-Lying, Non-Yrast Shell Structure in ^{52}Ti

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Decay of a $K^\pi = 21/2^-$, 17-ms Isomer in ^{185}Ta

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Coulomb Dissociation of ^{15}C and Radiative Neutron Capture on ^{14}C

H. Esbensen

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The $11/2^- [505]$ Neutron Extruder Orbital in ^{159}Sm

W. Urban, J. A. Pinston, G. S. Simpson, A. G. Smith, J. F. Smith, T. Rzača-Urban, and I. Ahmad

Phys. Rev. C **80**, 037301/1-4 (2009)

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Lifetime of the $7s6d\ ^1D_2$ Atomic State of Radium

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Near-Yrast Structure of ^{142}Cs and ^{144}Cs

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Identification of $J^\pi = 19/2^+$ and $23/2^+$ Isomeric States in ^{127}Sb

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A Target Vacuum Interlock System for Gammasphere

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