

PUBLICATIONS DURING 1999

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HEAVY-ION NUCLEAR PHYSICS RESEARCHGround-State Band and Deformation of the $Z = 102$ Isotope ^{254}No

P. Reiter, T. L. Khoo, C. J. Lister, D. Seweryniak, I. Ahmad, M. Alcorta, M. P. Carpenter, J. A. Cizewski, C. N. Davids, G. Gervais, J. P. Greene, W. F. Henning, R. V. F. Janssens, T. Lauritsen, S. Siem, A. A. Sonzogni, D. Sullivan, J. Uusitalo, I. Wiedenhöver, N. Amzal, P. A. Butler, A. J. Chewter, K. Y. Ding, N. Fotiades, J. D. Fox, P. T. Greenlees, R.-D. Herzberg, G. D. Jones, W. Korten, M. Leino, and K. Vetter Phys. Rev. Lett. **82**, 509-512 (1999)

Decay Out of the Doubly-Magic Superdeformed Band in the $N = Z$ Nucleus ^{60}Zn

C. E. Svensson, D. Rudolph, C. Baktash, M. A. Bentley, J. A. Cameron, M. P. Carpenter, M. Devlin, J. Eberth, S. Flibotte, A. Galindo-Uribarri, G. Hackman, D. S. Haslip, R. V. F. Janssens, D. R. LaFosse, T. J. Lampman, I. Y. Lee, F. Lerma, A. O. Macchiavelli, J. M. Nieminen, S. D. Paul, D. C. Radford, P. Reiter, L. L. Riedinger, D. G. Sarantites, B. Schaly, D. Seweryniak, O. Thelen, H. G. Thomas, J. C. Waddington, D. Ward, W. Weintraub, J. N. Wilson, C. H. Yu, A. V. Afanasjev, and I. Ragnarsson Phys. Rev. Lett. **82**, 3400-3404 (1999)

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Discovery of Fine Structure in the Decay of the Highly Deformed Proton Emitter ^{131}En

A. Sonzogni, C. N. Davids, P. J. Woods, D. Seweryniak, M. P. Carpenter, J. J. Ressler, J. Schwartz, J. Uusitalo, and W. B. Walters Phys. Rev. Lett. **83**, 1116-1118 (1999)

Transition Rates Between Mixed Symmetry States: First Measurement in ^{94}Mo

N. Pietralla, C. Fransen, D. Belic, P. von Brentano, C. Rie, 8ner, U. Kneissl, A. Linnemann, A. Nord, H. H. Pitz, T. Otsuka, I. Schneider, V. Werner, and I. Wiedenhöver Phys. Rev. Lett. **83**, 1303-1306 (1999)

Octupole Correlations in the Pu Isotopes: Rom Vibration to Static Deformation?

I. Wiedenhöver, R. V. F. Janssens, G. Hackman, I. Ahmad, J. P. Greene, H. Amro, P. K. Bhattacharyya, M. P. Carpenter, P. Chowdhury, J. Cizewski, D. Cline, T. L. Khoo, T. Lauritsen, C. J. Lister, A. O. Macchiavelli, D. T. Nisius, P. Reiter, E. H. Seabury, D. Seweryniak, S. Siem, A. Sonzogni, J. Uusitalo, and C. Y. Wu Phys. Rev. Lett. **83**, 2143-2146 (1999)

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- Second Proton and Neutron Alignments in the Doubly-Odd Nuclei $^{154,156}\text{Tb}$
J. Hartley, J. L. Allen, T. B. Brown, F. G. Kondev, J. Pfohl, M. A. Riley, S. M. Fischer,
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- High-K Isomers in Neutron-Rich Hafnium Nuclei At and Beyond the Stability Line
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- High-Spin Structure in $^{181,183}\text{Au}$
W. F. Mueller, H. Q. Jin, J. M. Lewis, W. Reviol, L. L. Riedinger, M. P. Carpenter, C. Baktash,
J. D. Garrett, N. R. Johnson, I. Y. Lee, F. K. McGowan, C.-H. Yu, and S. Cwiok
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Proton Emission from the Closed Neutron Shell Nucleus ^{155}Ta

J. Uusitalo, C. N. Davids, P. J. Woods, D. Seweryniak, A. A. Sonzogni, J. C. Batchelder, C. R. Bingham, T. Davinson, J. deBoer, D. J. Henderson, H. J. Maier, J. J. Ressler, R. Slinger, and B. Walters
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Proton and α Radioactivity Below the $Z = 82$ Shell Closure

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Differential Quadrupole Moment Measurements of the $1/2+[660] (i_{13/2})$ Neutron Intruder Band in ^{133}Nd and ^{135}Nd

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Interlayer Phase Correlation of the Vortex System Around the Coupling Transition in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ Containing Columnar Defects

Y. Tsuchiya, T. Hanaguri, H. Yasuda, A. Maeda, M. Sasase, K. Hojou, D. G. Steel, J. U. Lee, and D. J. Hofman
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Near Yrast Study of the *fpg* Shell Nuclei ^{58}Ni , ^{61}Cu and ^{61}Zn

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Production of Neutron-Rich Isotopes by Cold Fragmentation in the Reaction $^{197}\text{Au} + \text{Be}$ at 950 A MeV

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A. N. Andreyev, N. Bijnens, M. Huyse, P. Van Duppen, M. Leino, T. Enqvist, P. Kuusiniemi, W. Trzaska, J. Uusitalo, N. Fotiades, J. A. Cizewski, D. P. McNabb, K. Y. Ding, C. N. Davids, R. V. F. Janssens, D. Seweryniak, M. P. Carpenter, H. Amro, P. Decrock, P. Reiter, D. Nisius, L. T. Brown, S. Fischer, T. Lauritsen, J. Wauters, C. R. Bingham, and L. F. Conticchio
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R. Ganz for the E917 Collaboration: B. B. Back, R. R. Betts, H. C. Britt, J. Chang, W. C. Chang, C. Y. Chi, Y. Y. Chu, J. B. Cumming, J. C. Dunlop, W. Eldredge, S. Y. Fung, R. Ganz, E. Garcia, A. Gillitzer, G. Heintzelman, W. F. Henning, D. J. Hofman, B. Holzman, J. H. Kang, E. J. Kim, S. Y. Kim, Y. Kwon, D. McLeod, A. Mignerey, M. Moulson, V. Nanal, C. Ogilvie, R. Pak, A. Ruangma, D. E. Russ, R. K. Seto, P. J. Stankas, G. S. F. Stephans, H. Wang, F. L. H. Wolfs, A. H. Wuosmaa, H. Xiang, G. H. Xu, H. B. Yao, and C. M. Zou
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Identification of a High-*K* Isomer in Neutron-Rich ^{185}Ta

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In-Beam Study of ^{254}No

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