

Abstract Submitted
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Level structure neutron-rich $^{80,82}\text{Se}$ isotopes¹ ANNE FORNEY, WILLIAM WALTERS, University of Maryland, College Park — Neutron-rich $^{80,82}\text{Se}$ isotopes were studied using the Gammasphere Ge-detector array at ANL. Beams of ^{76}Ge and ^{82}Se were incident upon thick ^{238}U and ^{208}Pb targets in deep-inelastic reactions. The indication of triaxiality in ^{78}Ge has recently been presented from a low-energy sequence of strictly $\Delta J = 1$ transitions [1]. Isotonic ^{80}Se exhibits none of the special features found in ^{78}Ge . New data in ^{82}Se will be presented to clarify β -decay studies [2,3], and angular-correlation measurements are used to strengthen spin and parity assignments in some cases. NuShellX calculations for the $N = 46$ and $N = 48$ isotones will be shown to test the $p_{3/2}f_{5/2}p_{1/2}g_{9/2}$ proton and neutron subspace [4]. [1] A. M. Forney, W. B. Walters, C. J. Chiara, R. V. F. Janssens, A. D. Ayangeakaa, J. Sethi, J. Harker, M. Alcorta, M. P. Carpenter, G. Gürdal, C. R. Hoffman, B. P. Kay, F. G. Kondev, T. Lauritsen, C. J. Lister, E. A. McCutchan, A. M. Rogers, D. Seweryniak, I. Stefanescu, and S. Zhu. Submitted (2018). [2] J.V. Kratz, H. Franz, N. Kaffrell, G. Hermann. Nucl. Phys. A 250 13-37 (1975). [3] H. Gausemel, K. A. Mezilev, B. Fogelberg, P. Hoff, H. Mach, and E. Ramström Phys. Rev. C 70, 037301 (2004). [4] B.A. Brown and W.D.M. Rae.

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Anne Forney
University of Maryland, College Park

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