

B8 2 Band termination in ^{80}Sr * D.F. WINCHELL, V.Q. WOOD, J.X. SALADIN, I. BIRRIEL, *University of Pittsburgh* M. DEVLIN, D.R. LAFOSSE, D.G. SARANTITES, *Washington University* C. BAKTASH, H.-Q. JIN, D. RUDOLF, C.-H. YU, *Oak Ridge National Laboratory* G. SYLVAN, S. TABOR, *Florida State University* R.M. CLARK, P. FALLON, I.Y. LEE, A.O. MACCHIAVELLI, *Lawrence Berkeley National Laboratory*

High-spin states were populated in ^{80}Sr with the reaction $^{58}\text{Ni} (^{28}\text{Si}, \alpha 2p)$, using a 130 MeV ^{28}Si beam from the 88 inch cyclotron at LBNL. Gamma rays were detected with Gammasphere, and evaporated alphas and protons were detected with the Microball. The level scheme has been extended, and angular distributions of many of the transitions have been measured. A portion of the data was taken using a backed target, allowing lifetime measurements. Evidence for band termination has been seen at spins above approximately $16\hbar$. The results will be discussed within the framework of cranked shell-model calculations.

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