Abstract Submitted
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Angular Correlations of γ-rays from ^{76}As[1] N. COOPER, V. WERNER, E. WILLIAMS, C. BERNARDS, R.J. CASPERSON, A. HEINZ, M. MARSHALL, J. QIAN, M.K. SMITH, J.R. TERRY, R. WINKLER, Yale University, B.P. CRIDER, S.W. YATES, University of Kentucky — The intermediate nucleus of the hypothetical neutrinoless double-beta ($0\nu2\beta$) decay mode of ^{76}Ge is ^{76}As. Structural knowledge of this nucleus is important to the ongoing theoretical study of the $0\nu2\beta$-decay mode. Energies and parities of many low-lying states of ^{76}As are known; however, the only state of this nucleus with known spin is the ground state. The low-lying states of ^{76}As have been studied in a γ-γ angular correlations experiment at WNSL, Yale University. The ^{76}Ge(p,n) reaction with 6 MeV incident protons was used to populate excited states of ^{76}As. γ-rays were detected by a pair of LEPS detectors and 10 Compton-suppressed clover detectors mounted in the YRAST Ball array. Preliminary results will be presented.

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