

Abstract Submitted
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New Analysis of levels in ^{103}Mo ¹ H.L. FRYMAN-SINKHORN, Eastern Kentucky University, E.H. WANG, C.J. ZACHARY, J.H. HAMILTON, A.V. RAMAYYA, Y.X. LUO, Vanderbilt University, J.O. RASMUSSEN, LBNL, S.J. ZHU, Tsinghua University, VANDERBILT COLLABORATION — Excited states of ^{103}Mo have been studied by analyzing γ - γ - γ and γ - γ - γ - γ coincidence data from the spontaneous fission of ^{252}Cf at Gammasphere. 23 new transitions and 12 new levels identified have been identified in this work. Spins and parities have been assigned based on systematics and their decay properties to the existing levels. The newly identified band has been assigned as a one-phonon γ band by comparing the energy level spacings and transition energies with that of $^{104,105}\text{Mo}$.

¹This work was performed while H.L. Fryman-Sinkhorn was a Research Experience for Undergraduate participant at Vanderbilt University

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