

Abstract Submitted
for the APR16 Meeting of
The American Physical Society

Structure above the $t_{1/2} = 6.85\text{-h}$, $21/2^+$ isomer in ^{93}Mo ¹ C. J. CHIARA, U.S. Army Research Laboratory/ORAU, J. J. CARROLL, U.S. Army Research Laboratory, G. J. LANE, S. S. HOTA, A. J. MITCHELL, N. PALALANI, M. W. REED, Australian National University — Excited states in ^{93}Mo were populated in the $^{90}\text{Zr}(^7\text{Li},p3n)$ reaction at the Heavy-Ion Accelerator Facility of the Australian National University. The CAESAR array of nine coaxial HPGe detectors and two low-energy photon spectrometers (LEPSs) was used to detect the emitted gamma rays. Relative yields for population of the $21/2^+$, ^{93m}Mo state and neighboring reaction channels were determined from gamma-singles data for beam energies of 5 to 8 MeV/A. The level structure above the isomer has been expanded through gamma-gamma coincidence measurements. These results will be compared with high-spin structure of neighboring nuclei and with shell-model calculations.

¹Supported in part by the U.S. Army Research Laboratory under Cooperative Agreement W911NF-12-2-0019.

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Date submitted: 08 Jan 2016

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