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E1 and M1 strength in ^{76}Ge and ^{76}Se from NRF experiments[1] N. COOPER, Yale, V. WERNER, Yale, TU Darmstadt, R.S. ILIEVA, P. HUMBY, P.M. GODDARD, Yale, Surrey, G. RUSEV, TUNL, LANL, A.P. TONCHEV, TUNL, LLNL, D. SAVRAN, EMMI/GSI, J. BELLER, N. PIETRALLA, C. ROMIG, M. SCHECK, M. ZWEIDINGER, TU Darmstadt, B.P. CRIDER, S.W. YATES, University of Kentucky — Dipole strength below the neutron separation energy of ^{76}Ge and ^{76}Se has been measured in a series of nuclear resonance fluorescence experiments at the TU Darmstadt and the Triangle Universities Nuclear Laboratory. Details of the data are compared with those expected from various strength functions under the assumption of the validity of the Brink hypothesis and Gaussian transition matrix elements. Additionally, these data are used to help constrain parameters in the Interacting Boson Model-2 for these nuclei involved in large-scale neutrino-less double-beta decay studies.

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