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Dipole Excitations of 76 Se in the Energy Range 5-9 MeV¹ PHILIP GODDARD, Yale University, University of Surrey, V. WERNER, M. SMITH, N. COOPER, Yale University, D. SAVRAN, Yale University/ TUD, N. PIETRALLA, C. ROMIG, TUD, E. KWAN, J.H. KELLEY, R. RAUT, G. RUSEV, A.P. TONCHEV, W. TORNOW, TUNL, S.W. YATES, A. CHAKRABORTY, B. CRIDER, E. PETERS, University of Kentucky — The Pygmy Dipole Resonance, which is found on the low-energy tail of the GDR has been studied via scattering of real photons in ⁷⁶Se. After an initial scan of the 5-9 MeV exitation energy region with unpolarized photons, within this work parities of dipole excited states were unambiguously determined via polarimetry after excitation with polarized photons from the free electron laser at HIGS/TUNL. First results will be presented, which will serve as future tests for the structure of this $0\nu 2\beta$ -relevant isotope.

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Philip Goddard Yale University, University of Surrey

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