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Two-Phonon Octupole excitation in ^{96}Zr

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We present the preliminary analysis of an experiment performed at INFN LNL in November 2023 aimed at studying the two-octupole phonon collectivity in ^{96}Zr . The goal of the experiment was to perform a γ -decay branching ratio measurement from the 6^+ to the 3^- state, so as to extract the $B(E3; 6^+ \rightarrow 3^-)$ value. If large, this parameter would indicate for the 6^+ level to be a member of the $3^- \otimes 3^-$ multiplet. The 6^+ state was populated via the $^{96}\text{Zr}(p,p')^{96}\text{Zr}$ proton inelastic scattering and the scattered protons were measured in the SAURON Double-Sided Silicon Strip detector. These were used to select the reaction channel of interest, in coincidence with the γ rays in the AGATA array.

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