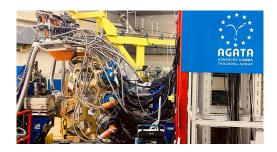
The 24th AGATA Week - ACC Meeting



ID de Contribution: 3 Type: Non spécifié

Two-Phonon Octupole excitation in 96Zr

vendredi 13 septembre 2024 10:30 (15 minutes)

We present the preliminary analysis of an experiment performed at INFN LNL in November 2023 aimed at studying the two-octupole phonon collectivity in $^{96} \rm Zr.$ 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; $6^+ \to 3^-$) 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 $^{96} \rm Zr(p,p')^{96} \rm Zr$ 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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