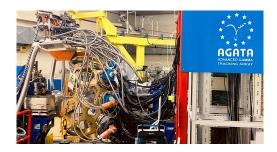
## The 24th AGATA Week - ACC Meeting



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  $\gamma$ -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  $\gamma$  rays in the AGATA array.

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