



ID de Contribution: 62

Type: Non spécifié

## (online) Report on the AGATA experiment number 24.027

*mardi 16 septembre 2025 14:20 (20 minutes)*

Inverse beta decay (IBD) is a crucial process historically employed to study neutrinos. For example, discrepancies between measured and expected IBD rates on ( $^{71}\text{Ga}$ ), the so-called *gallium anomaly*, suggest the possible existence of sterile neutrinos. A recent publication showed that the poorly known associated Nuclear Matrix Element (NME) can be extracted measuring the decay width from the Isobaric Analog State (IAS) in ( $^{71}\text{Ge}$ ). In this talk, I will present the preliminary results from the experiment 24.027 carried out in February 2025 and aimed at studying the feasibility of this measurement.

**Auteurs:** SIMIONI, Federico (UNIPD, INFN LNL); Prof. VALIENTE-DOBON, José Javier (IFIC, CSIC-University of Valencia); STRAMACCIONI, Damiano (UNIPD, INFN LNL)

**Orateur:** SIMIONI, Federico (UNIPD, INFN LNL)

**Classification de Session:** ACC 5