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Performances of AGATA at high energies

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We propose to conduct an experiment aimed at assessing the performance of AGATA at energy levels of up to 4.8 MeV. Investigating AGATA's response to highly energetic gamma rays, specifi- cally focusing on efficiency, resolution, and the performance of the tracking algorithm, is a matter of considerable interest within the scientific community. However, such an evaluation has not yet been undertaken. The measurements outlined in this Letter of Intent will be executed in collabora- tion with the utilization of standard, long-lived radiation sources readily available at the Laboratori Nazionali di Legnaro (LNL). These sources include 241Am, 133Ba, 152Eu, 60Co, and 226Ra. Addi- tionally, we plan to procure a short-lived source of 56Co specifically for this experiment.

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