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Instruments optimizations for low energy Gamma-ray detection

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There is an experimental gap in the study of the non-thermal universe in the photon energy range from 300 keV to 100 MeV.

We have analyzed the performance of a detector with unprecedented sensitivity, angular and energy resolution and combined with polarimetric capability to study of the most powerful Galactic and extragalactic sources and with a line sensitivity in the MeV energy range two orders of magnitude better than previous generation of instruments that can determine the origin of key isotopes fundamental for the understanding of supernova explosion and the chemical evolution of our Galaxy.

Primary author: RODRIGUEZ FERNANDEZ, Gonzalo (ROMA2)

Co-author: MORSELLI, Aldo (ROMA2)

Presenter: RODRIGUEZ FERNANDEZ, Gonzalo (ROMA2)

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