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AGILE observations of middle-aged SNRs

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The gamma-ray imager on-board the AGILE satellite detected several middle-aged Supernova Remnants.

Unlike young SNRs, these objects are bright also for energies greater than some tens of MeV.

Here we present an overview of the AGILE observations of middle-aged SNRs in the “low energy” band (50-400 MeV)

and the spectral and morphological studies performed for some of them (IC443, W28, W44, W51C).

These data, combined with the results from instruments operating at higher energy (Fermi, HESS, MAGIC, Veritas)

can constrain the theoretical models for the gamma ray production in SNRs.

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