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AGILE and GRBs: 13 years of observations

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After more than 14 years activity, the AGILE satellite continues its exploration of the high-energy sky, investigating galactic and extragalactic sources in the hard X- and gamma-ray energy range. Among its scientific targets, Gamma-Ray Bursts (GRBs) represent one of the most interesting topics. In particular, the AGILE minicalorimeter (MCAL; 0.4-100 MeV) offers the opportunity to detect GRBs in the poorly investigated MeV - tens of MeV energy range, providing insights on the high-energy component of these events. Moreover, the coded mask X-ray SuperAGILE (18-60 keV), when available due to telemetry constraints, allows to compare the source emission in X-rays. A good coverage with the AGILE Scientific Ratemeters of the SuperAGILE, Anti-Coincidence, and MCAL detectors is available almost continuously, providing further GRB data over a wide energy range. The AGILE MCAL GRB sample is mostly constituted by short-duration, hard-spectrum bursts, as expected from a detector operating in the 0.4-100 MeV energy range, optimized for the detection of short-duration events, and offers a set of bursts with high-energy features, providing interesting data in the tens of MeV regime.

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