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## The AGILE experiment status and results

*Friday, 9 September 2022 11:50 (25 minutes)*

I will present the main recent AGILE results related to gravitational waves, neutrinos and the hunt for their electromagnetic counterparts, including some recent updates on the science of Fast Radio Burst (FRBs).

AGILE is an Italian Space Agency (ASI) space mission devoted to gamma-ray observations in the 30 MeV - 50 GeV energy range, with simultaneous X-ray imaging in the 18-60 keV band. Launched in April 2007, the AGILE satellite is operating nominally in its 16th year in orbit, and it is substantially contributing to improve our knowledge of the high-energy gamma-ray sky.

Gamma-ray emission from cosmic sources at energies above 100 MeV is intrinsically non-thermal, and the study of the wide variety of observed Galactic and Extragalactic gamma-ray sources provides a unique opportunity to test theories of particle acceleration and radiation processes in extreme conditions, and it may help to shed light on the foundations of physics itself.

### Summary

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**Session Classification:** VI Plenary Session chair Paolo Desiati