

Phenomenology: AGILE search of gamma-ray electromagnetic counterparts of gravitational waves

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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, with more than 16 years of observation in orbit, is substantially contributing to improve our knowledge of the gamma-ray sky. Thanks to its very fast ground segment alert system, AGILE observations have provided the fastest response and the most significant upper limits in the energy range above 100 MeV to the first detected gravitational wave event GW150914 by the LIGO-Virgo Collaboration, and to all other GW events detected up to now, including the famous BNS event GW170817. AGILE is actively involved in the hunt for high-energy electromagnetic counterparts of GW during the current LIGO-Virgo-Kagra (LVK) O4 observing run, started in May, 2023.

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Session Classification: Parallel Sessions