

Vulcano Workshop 2018 - Frontier Objects in Astrophysics and Particle Physics



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Fermi-GBM highlights in the Era of Gravitational-Wave Astronomy

The Fermi Gamma-Ray Burst Monitor (GBM) is the secondary instrument onboard the Fermi mission, which is celebrating its 10-yrs anniversary in Space in 2018. Fermi-GBM has a wide field of view, high uptime, and both in-orbit triggering and high time resolution continuous data acquisition, thus enabling offline searches for weaker transients. Fermi-GBM triggered on more than 2300 Gamma-Ray Bursts (GRBs), but also on many soft gamma-ray repeaters, X-ray bursters, solar flares and terrestrial gamma-ray flashes. At the dawn of Multi-Messenger era, Fermi-GBM started providing context observations and follow-ups of gravitational wave events detected by LIGO/Virgo.

In this talk, I will give a broad overview of the main Fermi-GBM results obtained during its first 10 years of operation, focusing on its key role in the Era of Gravitational-Wave Astronomy, and on its highlights collected during the last 3 years, in particular during the O1 and O2 observation runs of LIGO/Virgo.

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