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Probing GRB physics through high-energy observations with Fermi

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The Fermi Gamma-ray Space Telescope has provided unique insights into the Universe's biggest explosions over the past 13 years. With thousands of gamma-ray bursts (GRBs) detected by the Gamma-ray Burst Monitor (GBM) and hundreds by the Large Area Telescope (LAT), we have studied the properties of the populations of these events and obtained unique insights into their emission mechanisms, environment, and physical properties.
In this talk, I'll review highlights of GRB science from the Fermi mission at low (keV) and high (GeV) energy. I will also put them in context of the most recent discoveries of very-high (TeV) energy emission from a few bright GRBs (e.g. GRB 180720B, GRB 190114C) observed by the Cherenkov Telescopes of the H.E.S.S. and MAGIC experiments, respectively.

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