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The MAGIC VHE GRB program

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Since the beginning of its operations, the MAGIC telescopes were optimised to perform fast observations of gamma-ray bursts (GRBs). The follow-up strategy and the specific design of these telescopes, namely a fast slewing system (7 deg/s), a low energy threshold (around 50 GeV) and the possibility of performing observations in not standard conditions (such as large zenith angle of observations and/or with moderate moonlight), let them to perform the first detections of GRBs in the very high energy (VHE, E>100 GeV) domain.These discoveries are shedding light on the physical processes at play in GRB sources. This contribution will highlight the current status of GRB studies with MAGIC, including the detection of GRB 190114C and GRB 201216C and the studies performed for the hint of detections from GRB 160821B and GRB 201015A.

Track

GRBs

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