GRB 201216C: A TeV Detected Gamma-ray burst at z=1.1

Tuesday 11 October 2022 10:38 (1 minute)

Gamma-ray bursts are the most energetic cosmic explosions in the Universe, covering a spectral domain from all the way radio to gamma-ray up to tens of GeV. Recently, the detection of very high energy emissions (z ~ 0.0785 to 1.1) associated with the afterglows of a few GRBs by HESS and MAGIC telescopes has provided new insights into the research area of these fascinating objects. This work presents a multi-wavelength analysis of the prompt emission and afterglow of the most distant VHE detected GRB 201216C. We also compared our results with a sample of known VHE detected GRBs and found that most of the results obtained from GRB 201216C are similar to the VHE detected GRB 180720B.

Track

GRBs

Authors: Mr KUMAR, Amit (Aryabhatta Research Institute of Observational Sciences); KUMAR, Amit (Aryabhatta Research Institute of Observational Sciences)

Presenters: Mr KUMAR, Amit (Aryabhatta Research Institute of Observational Sciences); KUMAR, Amit (Aryabhatta Research Institute of Observational Sciences)

Session Classification: Poster session