



Contribution ID: 144

Type: Oral Presentation

Investigating gamma-ray fluxes from globular clusters

Thursday, 7 July 2016 10:20 (20 minutes)

Abstract content ** ** (Max 300 words) **
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(For the H.E.S.S. Collaboration)

Globular clusters (GCs) are large collections of old stars that are orbiting the core of a galaxy. Our Milky Way Galaxy has about 160 known GCs, with perhaps more to be discovered. We analysed 20 GCs observed by the H.E.S.S. very-high-energy (>100 GeV) gamma-ray telescopes. The detection of Terzan 5 was confirmed and flux upper limits were obtained for the remaining 19 sources. We accumulated the necessary parameters for each GC and ran a numerical model that predicts the inverse Compton gamma-ray flux expected from each cluster. The five most promising GCs for future observations by Cherenkov Telescope Array (CTA) will be highlighted.

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Session Classification: Astrophysics (2)

Track Classification: Track D1 - Astrophysics