

Searching for the gamma-ray emission of HESS J0632+057

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In the last decade Cherenkov telescopes on the ground and space-based gamma-ray instruments have identified a new class of high mass X-ray binaries (HMXB), whose emission is dominated by gamma rays. To date only five of these systems are known. All of them are detected by Cherenkov telescopes in the TeV energy range, while at GeV energies there is still one (HESS J0632+057) that has no reported detection with the Fermi LAT. A deep search for gamma ray emission of HESS J0632+057 has been performed using more than 3.5 years of Fermi-LAT data. We discuss the results of this search and compare it to other gamma-ray binary systems.

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