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Investigating the X-ray emission from the Galactic TeV Gamma-ray Source MGRO J1908+06

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MGRO J1908+06 is a bright, extended TeV gamma-ray source located near the Galactic plane. The TeV emission has previously been attributed to the pulsar wind nebula (PWN) of the nearby Fermi-LAT pulsar PSR J1907+0602. However, studies of the TeV morphology with VERITAS have shown that MGRO J1908+06 is somewhat larger than other PWNe of a similar age and that the TeV spectrum does not soften with distance from the pulsar as is observed for other PWNe. Although MGRO J1908+06 is very bright in gamma rays, having a flux corresponding to ~80% of the Crab Nebula flux at 20 TeV, no extended emission at other wavelengths has so far been detected. We report on our analysis of X-ray data obtained with XMM-Newton of the region near MGRO J1908+06. We searched the X-ray data for point-like X-ray sources that may be associated with the TeV emission, carried out an extended source analysis to constrain the diffuse X-ray emission from MGRO J1908+06, and modeled the multi-wavelengths spectrum of the source.

Collaboration

– not specified –

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