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Spectrum and Morphology of the Ultra-High-Energy Source LHAASO J2018+3651

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The LHAASO J2018+3651 region is one of the brightest sources in the Cygnus region at TeV energies. Photons with energies up to 0.27 PeV from this source have been detected with the Large High Altitude Air Shower Observatory (LHAASO) and here we present a detailed study of this region using more data from LHAASO. This analysis resolves the region into six sources: LHAASO J2018+3641, LHAASO J2019+3649, LHAASO J2021+3654, LHAASO J2016+3712, LHAASO J2013+3610 and LHAASO J2027+3657. In this work, we conduct a detailed analysis of the morphology and energy spectrum of these six sources, and discuss their possible counterparts and radiation mechanisms.

Collaboration you are representing

LHAASO collaboration

Author: Dr HOU, Chao (IHEP)

Co-authors: Dr ZHANG, bing (IHEP); Dr LI, huicai (IHEP)

Presenter: Dr HOU, Chao (IHEP)

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