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Sensitivity of the LHAASO-WCDA for various Gamma ray sources

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The Large High Altitude Air Shower Observatory (LHAASO) will be constructed at Mt. Haizi in Sichuan Province, China. As a major component of the LHAASO project, the Water Cherenkov Detector Array (WCDA) is designed to record air showers produced by cosmic rays and gamma rays in the energy range from 100 GeV to 100 TeV. Complementing the Imaging Atmospheric Cherenkov Telescopes with large field-of-view and long duty cycle, and the space-based gamma-ray detectors with high energy reach, WCDA is well-suited to study particle acceleration in Pulsar Wind Nebulae, Supernova Remnants, Active Galactic Nuclei and Gamma-ray Bursts. Results of the sensitivity calculation of the detector on steady point sources, extended sources, transient sources and GRBs are presented in this talk.

Collaboration

LHAASO

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