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Expectation on Observation of Gamma-ray Astronomy with the LHAASO Project

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The Large High Altitude Air Shower Observatory (LHAASO) project is a new generation instrument, which will be built at 4400m above sea level in Daocheng, Sichuan province, China. With a sensitivity of 10 mili-Crab, LHAASO will survey the northern sky in the declination band from -10° to 70° with a 100% duty cycle. With the wide field-of-view, LHAASO can observe not only the γ -ray point sources, but also extended sources, diffuse sources and transient phenomena. From the simulation result on observation of SNRs, Cygnus region, diffuse galactic γ -rays and transient sources, we can see that LHAASO has a strong ability to provide the accurate spectrum from 300GeV to 1 PeV and give a final judgment on different cosmic ray acceleration mechanism models.

Collaboration

LHAASO

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