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The VERITAS Survey of the Cygnus Region of the Galaxy

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The Cygnus region is a very active region of our Galaxy, with many sources of GeV and TeV gamma-ray emission, such as supernova remnants, pulsar wind nebulae, high mass X-ray binaries and massive star clusters. A detailed study of the Cygnus region can give insight into the processes of particle acceleration in astrophysical sources. VERITAS is an array of four 12 meter diameter imaging atmospheric cherenkov telescopes located at Mt Hopkins, AZ, USA. From 2007 through 2012 it has gathered nearly 300 hours of data in the Cygnus region from 67 to 83 degrees Galactic longitude and from -2 to 5 degrees in Galactic latitude. We have reanalyzed the VERITAS data with updated analysis techniques, and will be cross correlating that data with the results of an analysis of over five years of Fermi-LAT data in the region. Using a cross correlation of these results we can motivate continued observations in this active region of the Galaxy.

Collaboration

VERITAS

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