

The VERITAS Dark Matter and Astroparticle Program

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VERITAS, an array of atmospheric Cherenkov telescopes is sensitive to VHE gamma rays in the 85 GeV-30 TeV energy range. VERITAS has a wide scientific reach including observations of supernova remnants, pulsars, pulsar wind nebulae, active galactic nuclei, among others. This presentation will focus on recent developments of the various astroparticle science topics by members of the VERITAS collaboration, including the search for dark matter (DM). The possible astrophysical objects considered to be candidates for indirect DM detection are dwarf spheroidal galaxies (dSphs) of the Local Group and the Galactic Center among others. Results of a combined search for DM of four dSphs will be reported along with a spectrum cosmic-ray electrons, constraints on the inter-galactic magnetic field and other astroparticle physics topics.

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Session Classification: Dark Matter

Track Classification: Dark matter searches (direct and indirect)