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Highlights from VERITAS studies of TeV astroparticle physics

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VERITAS is an array of four imaging atmospheric Cherenkov telescopes designed to observe gamma-ray emission from astrophysical objects in the energy range from 85 GeV to > 30 TeV. Located at the Fred Lawrence Whipple Observatory in Arizona, VERITAS has operated successfully over seven years with two major upgrades that improved the performance of the array. The scientific goals of VERITAS include understanding the acceleration, interactions, and propagation of TeV particles by observing very high energy gamma rays from extreme environments in both Galactic and extragalactic sources. VERITAS also conducts searches for dark matter in the TeV energy range and performs studies of cosmic rays. In this presentation, we will summarize the current status of VERITAS and highlight recent scientific results.

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