

Abstract Submitted  
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**SNR observations with VERITAS**<sup>1</sup> MARK THEILING, Smithsonian Astrophysical Observatory, VERITAS COLLABORATION — The acceleration of particles in supernova shocks is widely accepted as the source of cosmic rays below the “knee” in the spectrum at  $3 \times 10^{15}$  eV. The subsequent production of TeV gamma-rays, either via leptonic processes or hadron-hadron interaction in the surrounding media, gives us a window into these processes. Using VERITAS, an array of 4 Imaging Atmospheric Cherenkov Telescopes located at Mt. Hopkins near Tucson, Arizona, the VERITAS collaboration is searching for evidence of cosmic ray production in nearby supernova remnants. We present a summary of observations and analysis of several supernova remnants observed during the 2007-2008 and 2008-2009 observing seasons.

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