

Abstract Submitted
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Supernova Remnants TeV Gamma Ray Emission with HAWC

RAMIRO TORRES ESCOBEDO, Texas Tech, HAWC COLLABORATION — Supernova remnants (SNRs) have been astrophysical objects of great interest in the very high energy universe. There is evidence to suggest, that SNRs are responsible for the cosmic ray emission up to an energy 10^{15} eV. Gamma-rays help explore the TeV universe to study the sites where particle acceleration take place. The High Altitude Water Cherenkov Detector (HAWC), located in Sierra Negra Volcano in Puebla state, Mexico is a wide field gamma-ray observatory, capable of observing gamma rays with energies up to ~ 100 TeV. Studies of gamma-rays at these energies provide a way to distinguish whether gamma-ray emission is of leptonic or hadronic origin.

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