



H.E.S.S. observations of the supernovae remnant RCW 86

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Abstract: The shell-type supernova remnant (SNR) RCW 86 - possibly associated with the historical supernova SN 185 - was observed during the past three years with the High Energy Stereoscopic System (H.E.S.S.), an array of four atmospheric-Cherenkov telescopes located in Namibia. The multi-wavelength properties of RCW 86, e.g. weak radio emission and North-East X-ray emission almost entirely consisting of synchrotron radiation, resemble those of two VHE emitting SNRs RX J1713.7-3946 and RX J0852-4622. The H.E.S.S. observations reveal a new extended source of VHE (>100 GeV) γ -ray emission. The morphological and spectral properties of this new source will be presented.

Results will be given in the post-conference version of the proceedings