



Contribution ID: 1232

Type: **Poster contribution**

VERITAS Observations of HESS J1943+213

Thursday 30 July 2015 15:30 (1 hour)

HESS J1943+213 is a very-high-energy (VHE; > 100 GeV) gamma-ray point source detected during the H.E.S.S. Galactic Plane Survey. Radio, infrared, X-ray, and GeV gamma-ray counterparts have been identified for HESS J1943+213; however, the classification of the source is still uncertain. Recent publications have argued primarily in favor of either an extreme BL Lac object behind the Galactic plane or a young pulsar wind nebula. We present deep VERITAS observations of HESS J1943+213, which provide the most significant VHE detection of the source so far, with >20 sigma excess. The source is detected at $\sim 2\%$ Crab Nebula flux above 200 GeV, consistent with the H.E.S.S. detection. The source spectrum is well fit by a power-law function. Moreover, no significant flux variability is detected over the course of VERITAS observations. We place the VERITAS results in a multi-wavelength context to comment on the HESS J1943+213 classification.

Collaboration

VERITAS

Registration number following "ICRC2015-I"

616

Primary author: SHAHINYAN, Karlen (University of Minnesota)**Presenter:** SHAHINYAN, Karlen (University of Minnesota)**Session Classification:** Poster 1 GA**Track Classification:** GA-EX