



Contribution ID: 945

Type: **Oral contribution**

Evidence of two VHE gamma-ray sources in the W51 region

Wednesday, 5 August 2015 11:15 (15 minutes)

W51C is a supernova remnant (SNR) known to be interacting with a molecular cloud (MC). Gamma-rays from hundreds of MeV up to tens of TeV were discovered towards this region. However a probable contamination from a pulsar wind nebula (PWN) prevents from directly investigating cosmic ray acceleration at the SNR shock. For the first time, thanks to new data analysis methods, H.E.S.S. reveals the two component gamma-ray morphology from this region. Distinct emission from the SNR/MC interaction region and the PWN are observed, allowing to extract individual very-high-energy gamma-ray spectra from these two probable contributors. The latest H.E.S.S. results will be shown and compared to the latest observation by Fermi-LAT.

Collaboration

H.E.S.S.

Registration number following "ICRC2015-I"

1245

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