



Contribution ID : 47

Type : **not specified**

A TeV follow-up survey of active galactic nuclei with the HAWC gamma-ray observatory

Monday, 27 May 2019 16:00 (0:20)

Content

Active galactic nuclei (AGN), the most common type of GeV gamma-ray sources, have a preponderant role as extragalactic particle accelerators. Unfortunately our vision of them is limited to the nearby Universe by the process of photon-photon attenuation of very high-energy gamma-rays, which limits the observable distance for a given photon energy coverage. The HAWC gamma-ray observatory, an extensive air shower array in continuous operation in Mexico since 2015, has surveyed 2/3 of the sky at TeV energies with the sensitivity to detect the Crab Nebula in single transits. We present a three year follow-up study of a redshift limited sample of AGN previously detected at GeV energies, performed with a sensitivity down to integrated photon fluxes $N(> 0.5\text{TeV}) \sim 1\text{e-}12 \text{ cm-}2 \text{ s-}1$.

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Session Classification : Afternoon session 2