

The restless nature of AGN: 10 years later



Contribution ID : 182

Type : Poster

Long term monitoring of TeV Active Galaxies seen by HAWC

The High Altitude Water Cherenkov (HAWC) Observatory has been looking at the Northern sky in the TeV band since March 2015. Its long duty cycle (about 24 hours per day) allows an excellent continuous monitoring of the brightest Blazars and Radio Galaxies emitting in the gamma-ray regime. We present HAWC light curves and TeV spectra of Mrk 421, Mrk 501 and M87 collected over 6 years. The HAWC light curves of the Blazars are complemented by quasi simultaneous X-ray monitoring by the Swift satellite in the 0.2-10 keV. The strong correlation between these two bands found in Mrk 421 is consistent with a linear dependence, which is expected if the emission mechanism is one-zone synchrotron self-Compton. The correlation between flux and spectral index for both sources, provides confirmation for the harder-when-brighter behaviour.

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Session Classification : Poster