

Multi-TeV Gamma-ray Sky Observed using HAWC – Highlights & Recent Results

Monday, 25 October 2021 21:00 (30 minutes)

The High Altitude Water Cherenkov (HAWC) Gamma-ray Observatory, located in between the volcanoes Sierra Negra and Pico de Orizaba in Mexico, has continuously been observing its entire overhead sky since 2015. The 2 sr field-of-view, >95% duty cycle, and sensitivity reaching over 100 TeV make HAWC a valuable experiment in the field of high energy astrophysics. In this presentation, we will show some of the exciting highlights of the HAWC analyses such as the detection of extended gamma-ray “halos” from the Geminga and Monogem pulsars, the discovery of TeV gamma rays from the jet lobes of microquasar SS 433, and the study of the daily variability of the blazars Mrk 421 and Mrk 501. This talk will also present some of our recent results as well as our updated sky catalog.

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Plenary talk

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