

The TeV Sky Observed by the High-Altitude Water Cherenkov Observatory (HAWC)

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Abstract

The High Altitude Water Cherenkov (HAWC) gamma-ray observatory began science operations 1 Aug 2013 with $\sim 1/3$ of the full detector. The rest of the detector will be constructed within the next year. Even now, HAWC is the most sensitive, wide field of view (~ 2 sr), continuously operating, TeV gamma-ray observatory ever constructed. Every day HAWC observes the sky from a Declination of -30 deg to $+70$ deg. HAWC is searching for transient sources such as flares from active galactic nuclei and gamma ray bursts as well as measuring Galactic sources to the highest energies. I will present preliminary first results from HAWC.