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Searches for Gamma-Ray Emission from TeV Binary Candidates with HAWC

Saturday 1 August 2015 15:30 (1 hour)

The High-Altitude Water Cherenkov (HAWC) Observatory is a large field-of-view, high-uptime detector which measures TeV cosmic rays and gamma rays from 2/3 of the sky each day. The large uptime and field of view make the detector well-suited to observe time-dependent emission from objects such as pulsars and TeV binaries. Very high energy gamma rays have been observed from only a small number of binary systems in the Galaxy, and the emission mechanisms are poorly understood. HAWC is beginning to carry out a simultaneous survey of many TeV binary candidates. We describe the sensitivity of HAWC to periodic emission from Galactic sources of gamma rays and present data from the first year of observations with the partially constructed observatory.

Collaboration

HAWC

Registration number following "ICRC2015-I"

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