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HAWC Gamma-ray Observatory

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The High Altitude Water Cherenkov (HAWC) gamma-ray observatory is a wide-field gamma-ray observatory located in Puebla, Mexico. The HAWC detector is composed of an array of water Cherenkov detectors (WCDs) that provides an instantaneous field of view of 2 sr and can observe 2/3 of the very high energy (VHE, $100 \text{ GeV} < E < 100 \text{ TeV}$) gamma-ray sky every day because of its high duty cycle (>95%). The HAWC observatory provides an excellent instrument for developing source catalogs as well as monitoring the sky for transient phenomena. With over five years of accumulated data, HAWC allows to study particle accelerators: pulsar wind nebulae (PWNe), supernova remnants (SNR), and active galactic nuclei. HAWC recently implemented an outrigger array that improves the sensitivity of the experiment above 10 TeV, allowing for a better understanding of these sources.

Primary authors: Dr ZHOU, Hao (Shanghai Jiao Tong University); TORRES-ESCOBEDO, Ramiro (Shanghai Jiao Tong University)

Presenter: TORRES-ESCOBEDO, Ramiro (Shanghai Jiao Tong University)

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