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Status of HAWC and Preliminary Results

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The High Altitude Water Cherenkov (HAWC) Observatory is an extensive air shower array in the state of Puebla, Mexico at an altitude of 4100m. With its 22,000 m² instrumented area, wide field of view (~ 2 sr), and >95% uptime, HAWC present unique facility to study extremely high energy cosmic-ray sources such as studies active galaxies, gamma-ray bursts, supernova remnants and pulsar wind nebulae, searches for regions of extended gamma-ray emission, to identify transient phenomena. HAWC will also provide tests for several fundamental physics phenomena such as dark matter annihilation and primordial black hole evaporation. This talk will discuss the status of the experiment and first results from analysis of the data.

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