

Through the eyes of HAWC: The High-Altitude Water Cherenkov Gamma Ray Observatory

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Abstract

Construction of the HAWC observatory has recently been completed at an altitude of 4100 m.a.s.l. in the state of Puebla, Mexico. It consists of an array of 300 water Cherenkov detectors designed to map the gamma-ray sky in the 100 GeV to 100 TeV range. Each WCD contains about 200 kilo-liters of water and is equipped with four photo-multiplier tubes, one located at its center and three more evenly distributed around it. HAWC has 15 times the sensitivity of its predecessor Milagro thanks to its location at a higher elevation, larger active area, better optical isolation and higher light collection efficiency due to the addition of larger photomultiplier tubes. Scientific goals and current status of HAWC will be presented in this talk.

Title

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