

The HAWC sky survey at the highest photon energies

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Content

At 4100m, from the privileged site of Sierra Negra, the HAWC gamma-ray observatory has been surveying 2/3 of the sky, between declinations -26 and +64. With 1523 days of live data, HAWC has now the deepest unbiased view of most of the Northern sky, in particular along the Galactic Plane, including the anti-center region, as well as constant monitoring of active galactic nuclei. Sources have been detected at photon energies beyond 100 TeV, pointing to Galactic accelerators of cosmic rays up to 1 PeV. These observations provide also tests on fundamental physics, like potential Lorentz Invariance violations.

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