

Abstract Submitted
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Cosmic-Ray Anisotropy with the HAWC Observatory¹ DANIEL FIORINO, University of Wisconsin-Madison, THE HAWC COLLABORATION — The High-Altitude Water Cherenkov (HAWC) Observatory is a TeV gamma-ray and cosmic-ray detector operating at an altitude of 4100 meters in Mexico. HAWC is an extensive air-shower array. Upon completion in 2014, it will comprise 300 optically-isolated water-Cherenkov detectors. While the observatory is only partially deployed, with ~ 100 Cherenkov detectors in data acquisition since summer 2013, statistics are sufficient to perform studies of cosmic-ray anisotropy. We discuss the status and performance of the detector, including the pointing accuracy and angular resolution as inferred from the observation of the moon shadow and simulations, and present new results on small-scale cosmic-ray anisotropy from our ever-growing detector and dataset.

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