

Abstract Submitted
for the APR13 Meeting of
The American Physical Society

HAWC sensitivity to Galactic TeV gamma-ray sources MICHELLE HUI, Michigan Technological University, HAWC COLLABORATION — The High Altitude Water Cherenkov (HAWC) Observatory is a second generation detector of TeV gamma rays based on the water Cherenkov technique. It will comprise an array of 300 water Cherenkov detectors. It is an all-sky surveying instrument with greater than 90% duty cycle, a field of view of 2 sr, and angular resolution of 0.1 degrees for energies above 10 TeV. The HAWC Observatory is currently under construction in Sierra Negra in the state of Puebla, Mexico. The site is at a latitude of 19 degrees North, and an altitude of 4100 m. Ten percent of the array started data taking in September, 2012, and one third of the full array will be operational by Summer 2013. I will present the sensitivity of the HAWC Observatory to known Galactic gamma-ray sources, including the complex Cygnus region, and regions with unidentified source associations.

Michelle Hui
Michigan Technological University

Date submitted: 11 Jan 2013

Electronic form version 1.4