

Abstract Submitted
for the APR14 Meeting of
The American Physical Society

The Askaryan Radio Array: Status and Performance RYAN MAUNU, KARA HOFFMAN, MIKE RICHMAN, University of Maryland, ASKARYAN RADIO ARRAY COLLABORATION — Ultra high energy neutrinos could be most efficiently detected in dense, radio frequency transparent media via the Askaryan effect. The Askaryan Radio Array is a new ultra high energy neutrino detector which will encompass a fiducial area of 100 square kilometers of the deep radio transparent ice near the South Pole. A “Testbed” and the first three clusters of antennae (out of 37 planned) have been installed to date. The primary science goal is the discovery of the cosmogenic neutrinos and measurement of the flux. We report on the science, design, and performance of this instrument, along with the prospects for completion of the detector construction.

Kara Hoffman
University of Maryland

Date submitted: 10 Jan 2014

Electronic form version 1.4