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Performance of the ARIANNA Neutrino Telescope

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The ARIANNA experiment uses low noise, low power and inexpensive technology to search for radio pulses emitted by extremely high energy cosmic neutrino interactions. Three detector stations have been deployed in the Ross Ice Shelf of Antarctica, taking both environmental as well as radio pulse data. The stations are powered by solar and wind generators and transfer data north via wireless Internet and satellite modem peripherals. The performance of the stations in 2014 will be discussed and the effectiveness of the Ross Ice Shelf as a radio quiet environment will be examined. Preliminary searches for neutrino signals in the data will be presented.

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