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The Askaryan Radio Array: Current Status and Future Plans

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The Askaryan Radio Array (ARA) is a gigaton, ultra-high energy (>10 PeV) radio neutrino detector under construction at South Pole; it searches for the characteristic radio Cherenkov pulses that are produced by neutrino interactions in the dense polar ice. The array has deployed three of the proposed ~ 37 stations so far, at depths up to 200m. In this talk, we will summarize the current status of the experiment's neutrino searches and hardware developments. We will also discuss the future of the array, including the planned deployment of an additional two upgraded stations in austral summer 2017, one of which is equipped with phased-array triggering capabilities.

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