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The Askaryan Radio Array: Detector Design & Operation

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The Askaryan Radio Array (ARA), currently under construction at the South Pole, is a large-scale cosmogenic neutrino detector designed to observe the coherent radio pulses associated with neutrino-induced cascades in the radio-transparent cold Antarctic ice. The detector incorporates novel bore-hole antenna designs, RF over fiber technology, custom ASIC digitizer, FPGA-based triggering, and ruggedized embedded computer systems all deployed in the South Pole ice sheet.

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