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Progress in In Situ UHE Neutrino Detectors: Joint Studies on Simulation and Ice

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Two ultrahigh-energy ($> 10^{17}$ eV) neutrino detectors are being deployed in Antarctica: the Askaryan Radio Array (ARA) and the Antarctic Ross Ice-Shelf Antenna Neutrino Array (ARIANNA). As the experiments differ in both the design and the surrounding ice, we describe the progress of a joint effort to understand the importance of these differences and we demonstrate convergent results in their simulated detector responses.

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