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Radio Detection of the Highest Energy Neutrinos

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Searches for ultra-high energy neutrinos ($E > 10^{17}$ eV) probe the nature of the highest energy universe in a unique way and test our understanding of particle physics at energies much greater than those achievable at particle colliders. I will discuss the range of strategies used to search for the highest energy neutrinos via radio emission from neutrino-induced showers, and the current status of measurements. The future of high energy neutrino detection lies with ground-based radio arrays, which would represent an enormous leap in sensitivity and may be able to push the energy threshold for radio detection down to overlap with the energy range probed by IceCube.

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