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The radio detection of neutrinos in polar ice

Thursday, 9 September 2021 12:00 (15 minutes)

The low expected flux of cosmic neutrinos drives the need for neutrino experiments with large exposures and lower thresholds. Radio experiments can achieve such large exposures by taking advantage of the coherent broadband radio emission resulting from ultra-high-energy (E>10^16 eV) neutrino interactions. In this talk, I will review the status of existing Antarctic radio experiments and discuss the new Radio Neutrino Observatory in Greenland (RNO-G), which completed the first season of detector installation in the summer of 2021. The outlook for the IceCube-Gen2 radio array will also be briefly presented.

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