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Searches for Astrophysical Neutrinos using radio-detection

Wednesday, 21 June 2017 11:30 (30 minutes)

High-energy (above 10^1 eV) neutrinos that interact in rock or ice will produce an intense pulse of radio waves via the Askaryan effect. These pulses are an attractive signal for experiments to search for high-energy astrophysical neutrinos. After introducing the Askaryan effect, I will present results from existing experiments that use the Moon and Antarctic ice as targets, and then discuss future plans for a > $100 \, \mathrm{km}^3$ detector.

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