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(I) Studying neutrino properties with neutrino telescopes

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Very large neutrino telescopes are multipurpose instruments that can observe tens of thousands of neutrinos interact at energies well beyond those of man-made accelerators. This has made them unique experiments for studying neutrino properties and probing what might be beyond the Standard Model. Exotic neutrino oscillations, new interactions and new force mediators are among these topics. In this talk I will present the newest neutrino oscillations results from IceCube, the future of this experiment and an exciting new opportunity for deploying a neutrino telescope in Canada: the Pacific Ocean Neutrino Experiment, P-ONE.

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