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Recent Results from the IceCube Neutrino Observatory

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The IceCube Neutrino Observatory, located in the ice beneath the geographic South Pole, can study neutrinos of atmospheric, galactic, and extragalactic origin. Such neutrinos may be used to answer a number of open questions in physics. For instance, identifying the sources of the highest energy neutrinos will shed light on the engines that generate such extreme energies, which could resolve the century-old question of the origin of cosmic rays. Furthermore, since neutrino oscillations violate the Standard Model (SM), careful studies of them may guide the search for physics beyond the SM. In this talk, I will summarize recent IceCube results with a particular focus on searches for neutrino sources and physics beyond the SM.

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