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Cosmic Neutrinos in IceCube

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High energy neutrinos are unique messengers, traveling cosmic distances without being absorbed or deflected, that offer a new perspective on the high-energy universe. The IceCube neutrino observatory, now in operation at the geographic South Pole, instruments a cubic kilometer of Antarctic ice as a high-energy neutrino detector. This talk will summarize recent observations that have offered evidence of a high-energy extraterrestrial signal beyond the atmospheric particle backgrounds and explore future prospects for continued observations with IceCube.