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Particle physics with cosmic neutrinos

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The IceCube Neutrino Observatory at the South Pole has been fully operational for over a decade. With a cubic kilometre of deep ice as the detection volume, the detector has seen thousands of astrophysical neutrinos from across the sky –with the first steady point source (NGC1068) recently discovered. In this talk we will discuss what we have learned about the astrophysical origins of these neutrinos, as well as give results in various areas of particle physics that are accessible with these and the even greater flux of background atmospheric neutrinos.

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