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Highlights from the IceCube neutrino observatory

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In 2013 the IceCube Neutrino Observatory, a cubic-kilometer deep ice detector located at the geographic South Pole, observed a flux of high-energy neutrinos of extra-terrestrial origin marking the beginning of a new era in neutrino astronomy. The observed neutrino flux lies in the 30 TeV - 2 PeV energy range and its detection has been further confirmed by different analysis techniques and in different detection channels.

This detection did not indicate the sources of these neutrinos as their direction in the sky does not seem to be correlated with any known class of astrophysical sources.

In this talk I will summarize the latest IceCube results and the current understanding of the properties of this astrophysical neutrino flux. I will also discuss the future of neutrino astronomy at the South Pole.

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