

High energy neutrino sources

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The completed IceCube detector achieves the minimum sensitivity required for the detection of high energy extra-Galactic sources of neutrinos. I will discuss the prospects for detecting such sources, and the outstanding astrophysics and physics open questions that may be resolved by their detection. These open questions include the origin of ultrahigh energy cosmic, the underlying physics of models describing high energy astrophysical sources, and neutrino properties (e.g. flavor oscillations and coupling to gravity).

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