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Searching for high-energy neutrinos from core-collapse supernovae

The IceCube Detector is a cubic kilometre neutrino detector array in the antarctic ice, looking for astrophysical, high-energy neutrinos. The collected data reveal a diffuse flux of these neutrinos over the whole sky, indicating an extragalactic origin. A possible contribution to this diffuse flux could stem from core-collapse supernovae. The neutrinos could either come from the interaction of the ejecta with a dense circumstellar medium or a jet, emanating from the star's core, that stalls in the star's envelope. In this poster I will present results of a Stacking Analysis to search for this high-energy neutrino emission from core-collapse supernovae.

Mini-abstract

Results of a search for high-energy neutrinos from core-collapse supernovae with 7yr of IceCube data

Experiment/Collaboration

IceCube

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