

Abstract Submitted
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Point source searches with the IceCube Neutrino Observatory JACOB FEINTZEIG, University of Wisconsin, Madison, ICECUBE COLLABORATION — Observing a point source of astrophysical neutrinos would be a “smoking gun” signature of a cosmic ray accelerator. Here we discuss past and future searches for point sources using IceCube, a cubic kilometer Cherenkov detector at the South Pole. Results from three years of partial-detector data will be shown. I will then describe how upcoming analyses will improve IceCube’s sensitivity to point sources by including two years of full-detector data and incorporating new event reconstruction techniques.

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