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【355】 Search for astrophysical sources of neutrinos with IceCube

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IceCube, a large telescope of high-energy astrophysical neutrinos, has significantly contributed to our understanding of the Universe. After the discovery of a diffuse flux in 2013 and the detection of a high-energy event coincident with a flaring blazar in 2017, hints of potential sources are now being unveiled by recent analyses. Here we focus on the results of a time-integrated and a time-dependent analysis of 10 years of IceCube data. These analyses are used to test a catalog of gamma-ray emitters, that provides the evidence for a cumulative excess of neutrinos, and to perform an unbiased search of the entire sky.

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