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【373】 Astrophysical Neutrino Searches with IceCube

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The detection of high energy astrophysical neutrinos by the IceCube Collaboration has paved the way to the field of neutrino astronomy. However, the origin of such neutrinos is still poorly understood and no source has been identified so far. Cosmic rays sources are home to hadronic interactions in which the accelerated particles might produce neutrinos and gamma-rays through the neutral pion decay.

In this contribution, we present the current status of neutrino point sources searches and focus on multi-messenger approaches using time and space coincidence searches with gamma rays, as well as with the directions of ultra-high-energy cosmic rays.

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