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【358】Neutrino point-source searches for multi-messenger astronomy with IceCube

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Since 2012 the IceCube detection of a diffuse population flux of astrophysical neutrinos confirmed the existence of population of sources emitting neutrinos above the 100 TeV energy scale, the nature of which remains still unknown. The sources of this diffuse neutrino high-energy excess need investigations with point-like source searches (time integrated and time dependent) and a strong multi-messenger program in synergy with other gamma-ray and other energy-band photon experiments, gravitational waves and cosmic-ray experiments. Recent results on high-energy emission from the blazar TXS 056+056 and latest results of point-source searches with 10 years of IceCube data, including observed neutrino emission excess from the active galaxy NGC 1068, will be presented.

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