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Neutrino sources in light of recent IceCube results

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The field of neutrino astronomy is undergoing a rapid evolution. After the discovery of a diffuse flux of astrophysical TeV-PeV neutrinos in 2013, the IceCube observatory has recently found first evidence for neutrino emission of blazars that undergo an episode of enhanced electro-magnetic emission. I will summarize these recent neutrino observations, highlight their relations to cosmic rays and gamma rays, and discuss candidate sources of the diffuse neutrino emission.

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