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High-energy Neutrinos from the Galactic Plane and the galactic hadronic sources

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The high-energy (TeV-PeV) neutrino diffuse emission from our Galactic Plane has been recently measured. The observed signal can be due to diffuse emission produced by cosmic rays interacting with interstellar gas but can also arise from a population of sources. In this talk, we discuss expectations for both the diffuse and source contribution by taking advantage of gamma-ray observations and/or theoretical considerations. In particular, we constrain the fraction of Galactic TeV gamma-ray sources (resolved and unresolved) with hadronic nature.

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