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Predictions of the Diffuse Galactic Neutrino Flux in Light of New Milagro Data

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Following the Milagro detection of multi-TeV gamma-rays from both the Cygnus and central Galactic regions, we investigate the consequences of a hadronic origin for this large scale diffuse emission. We demonstrate that such observations are highly relevant to the predictions of detectable fluxes by upcoming km³ neutrino-detectors. The possibility for a verification of a hadronic origin model through upcoming TeV and multi-TeV gamma-ray detectors are discussed.

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