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The very-high-energy neutrino (and gamma-ray) flux from the Galactic Plane

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We present updated predictions for the very-high-energy neutrino and gamma-ray flux from the Galactic Plane. Our calculations account for both the diffuse emission generated by cosmic-ray interactions with interstellar gas and the cumulative flux from sources too faint to be resolved by current neutrino or gamma-ray telescopes. The diffuse flux estimates incorporate various assumptions regarding the interstellar gas distribution, the spatial and spectral distribution of cosmic rays (including the possibility of spectral hardening in the inner Galaxy), and the latest local cosmic-ray measurements at PeV energies reported by LHAASO. We validate our predictions against recent gamma-ray observations and compare them with the latest results from neutrino telescopes.

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