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High energy Galactic neutrinos in a local PeVatron scenario

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We investigate and make theoretical estimates for the neutrino flux above 150 TeV in a scenario with a nearby source in the Cygnus region, the existence of which is motivated by the LHAASO gamma-ray bubble observations. By combining a state-of-the-art model of galactic cosmic rays with the contribution from a local source within the framework of a two-zone diffusion model, we investigate the neutrino signal for anisotropy.

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