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Light curves of BSM-induced neutrino echoes in the optically thin limit

High-energy cosmic neutrinos present a unique opportunity to search for physics beyond Standard Model thanks to their reach to the highest energies and longest baseline. Beyond Standard Model induced interactions of high-energy neutrinos during their propagation yield distinct signatures in their observables in neutrino telescopes. New physics scenarios will induce a time delay in observation of high-energy neutrinos from astrophysical transients. Here, we present the light curves for neutrino emission from transients for different new physics scenarios assuming optically thin limit and discuss the implications for current and future neutrino detectors.

Mini-abstract

Light curves of beyond Standard Model induced neutrino echoes for astrophysical transients.

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