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Tests of Lorentz and CPT invariance with neutrinos and photons

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Lorentz symmetry is a cornerstone of modern physics. As the spacetime symmetry of special relativity, Lorentz invariance is a basic component of the standard model of particle physics and general relativity, which to date constitute our most successful descriptions of nature. Deviations from exact symmetry would radically change our view of the universe and current experiments allow us to test the validity of this assumption. In this talk, I will describe how we can use neutrinos and photons to search for deviations from exact Lorentz and CPT invariance.

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