

# Neutrino Interferometry for High-Precision Tests of Lorentz Symmetry with IceCube

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Lorentz symmetry is a fundamental space-time symmetry underlying the Standard Model of particle physics and gravity. However, unified theories, such as string theory, allow for violation of this symmetry. Here, we use high-energy atmospheric neutrinos observed at the IceCube Neutrino Observatory to search for Lorentz violation. These are among the most stringent tests on Lorentz violation across all fields of physics.