

Low-Energy vs. High-Energy Leptonic Unitarity Violation

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We discuss characteristic difference between high- and low energy-scale leptonic unitarity violation. They include absence/presence of flavor universality and probability leaking term to “sterile” sector. We explore a possible method for pinning down the latter effect by using precision measurement of reactor neutrinos. We also discuss foundation of the framework of testing leptonic unitarity using neutrino oscillations in vacuum and in matter.

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