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Lorentz invariance violation from gamma ray bursts

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Lorentz invariance violation (LV) can be examined through the time delay between high-energy and low-energy photons in gamma-ray bursts (GRBs). Previous studies determined the Lorentz violation energy scale as $E_{LV} \simeq 3.60 \times 10^{17}$ GeV using Fermi Gamma-ray Space Telescope (FGST) data. We update the time delay model and reaffirm these findings with new observations.

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