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B-mode generation of CMB in the Standard Model Extension

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“According to standard cosmology, near the last scattering surface, the CMB photons scattered via Compton scattering predict that cosmological scalar perturbations at linear order are not able to source B polarization modes. In this work, we investigate the possibility that such CMB polarization modes are generated even in the presence of linear scalar perturbations by considering the Lorentz-violating operators in the Standard Model Extension (SME). Our results provide a useful tool to constrain new physics using CMB data.”

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