

Future CMB observations: Can we break LCDM?

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Measurements of the polarization of the cosmic microwave background (CMB) are rapidly becoming an important tool to test the standard LCDM model of cosmology. Future CMB experiments take aim at questions such as: Did inflation occur, and what physics was responsible for it? What are the neutrino masses? Are there new particle species (such as sterile neutrinos) that we can detect cosmologically? I will present an overview of what CMB experiments are on the horizon, along with forecasts for searches with these experiments for deviations from the 6-parameter LCDM cosmological model.

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