

New Perspectives



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Constraining New Physics with the Cosmic Microwave Background

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Observations of the Cosmic Microwave Background have revolutionized cosmology and established Λ CDM as the standard model describing the contents and evolution of the universe. Higher precision measurements of the CMB temperature and polarization anisotropy will continue to probe high energy physics on scales inaccessible in laboratories. These include the effective number of relativistic species, sum of the neutrino masses, and the energy scales of inflation. I will discuss how CMB measurements can constrain these parameters and the future experiments, such as CMB-S4, that are being developed for this purpose.

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