

Searching for Primordial Magnetism in the Cosmic Microwave Background with LiteBIRD (remote)

Wednesday 29 May 2024 10:30 (1 hour)

LiteBIRD will map the Cosmic Microwave Background polarization on the whole sky with unprecedented accuracy, opening a whole new world of opportunities in cosmology. One of these is the study of primordial magnetism. In particular, the combination of the many signatures in CMB polarization of primordial magnetic fields and the sensitivity and cleanness of LiteBIRD data will enable the study of primordial magnetism from several points of view by using complementary effects and different data products. I will present how these different effects of primordial magnetic fields on the CMB can be used to provide constraints on their characteristics with LiteBIRD future data.

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