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Invited talk by Anthony Challinor (Cambridge University) on "CMB probes of cosmological inflation: current status and future prospects"

Monday, 23 May 2022 14:00 (40 minutes)

The temperature and polarisation anisotropies of the CMB offer our most direct view of the early universe and their observation has, and continues to be, critical in constraining early-universe models. In this talk, I will review the key ways that the CMB constrains the properties of the primordial fluctuations, which were likely produced during an early period of cosmological inflation, and the implications of current constraints for models of inflation. I will also discuss some of the challenges faced in these measurements and review the prospects of forthcoming CMB experiments to advance our understanding of inflation.

Session Classification: CMB, Cross-Correlation and Galactic Science