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Primordial non-Gaussianity and statistical anisotropy

Wednesday, 9 August 2017 14:30 (15 minutes)

I will describe how statistical anisotropies, such as dipole modulations of the cosmic microwave background temperature and polarization fluctuations, are more likely if the primordial fluctuations are non-Gaussian. I will then discuss the implications of this effect for observations in the cosmic microwave background temperature and polarization anisotropies, and how such observations can be used to constrain the level of non-Gaussianities in the primordial fluctuations. In particular, I will focus on how the addition of statistical anisotropy information from E-mode polarization can help tighten current primordial non-Gaussianity constraints.

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