28th Texas Symposium on Relativistic Astrophysics



Contribution ID: 357 Type: Talk

Implications of the primordial power asymmetry for inflation

Monday 14 December 2015 18:15 (20 minutes)

It is both remarkable, and disappointing, that only two parameters describing the primordial perturbations can explain the statistical properties of millions of CMB temperature perturbations. However, the persistence of several large-scale cosmological anomalies in WMAP and Planck satellite data may provide a clue to new physics. I will discuss how inflationary models can explain the observed dipolar power asymmetry, and the extreme difficulties of building a complete working model.

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Session Classification: 06 - Early universe