

Isocurvature Induced Gravitational Waves at Pulsar Timing Arrays

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The standard cosmological model (Λ CDM model) assumes adiabatic initial conditions for primordial density perturbations. However, many new physics scenarios can deviate from this assumption and predict isocurvature perturbations across a large range of scales. In this talk, I will discuss interesting features of gravitational waves induced by isocurvature perturbations. I will also show that observations from pulsar timing arrays can place stringent limits on isocurvature at around $10^6/\text{Mpc}$.

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