

Gravitational growth of perturbations during reheating

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Near-exponential growth during primordial inflation must eventually be followed by big bang nucleosynthesis. The reheating processes that occur in the transition between the two can affect the inflationary power spectrum and dark matter abundance. If the inflaton field is not disrupted by resonance or prompt reheating, perturbations grow gravitationally. I will present the first simulations of this gravitational growth of non-linear perturbations in the inflaton condensate at the end of inflation.

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