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Supercurvaton

Monday, April 18, 2011 6:00 PM (15 minutes)

I discuss the curvaton scenario implemented in the context of the simplest model of chaotic inflation in supergravity. I investigate observational consequences and theoretical features of this model. The non-Gaussianity parameter f_{NL} in this scenario can be either very small or very large, and it can take different values in different parts of the universe. Under certain conditions, this parameter can take values in the observationally interesting range from $O(10)$ to $O(100)$. This investigation makes a close connection between the fundamental theory of supergravity and the observational measurements.

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