

Bounds on the Hidden Universe

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Although detecting primordial non-Gaussianity (NG) would provide an incredibly rich window onto the interaction physics of the inflaton, one might wonder what we could conclude about its nature if all we end up observing is consistent with adiabatic, Gaussian, scale invariant initial conditions. In this talk we highlight how in principle, one can still infer a great deal. The absence of primordial NG can be used to place bounds on various hidden sector scenarios that become more and more meaningful the more it can be bounded. We discuss the implications for various string theoretic and supersymmetric phenomenological scenarios.