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Inflationary predictions and moduli masses

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A generic feature of string/supergravity theories are moduli fields. The implication of moduli fields is a non-standard post-inflationary cosmological time-line when the energy density is dominated by cold moduli particles. This modification in the evolutionary hierarchy implies the preferred range in the number of e-folds between the horizon exit of relevant mode in CMB and the end of inflation is a function of moduli masses. As a result the CMB observables become sensitive to moduli masses. In this work we studied this sensitivity for some representative models of inflation using PLANCK 2015 data and found the results to be highly relevant in confronting models with observations

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