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Brane susy breaking and inflation – implications for scalar fields and CMB distortion

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Brane SUSY Breaking is a peculiar phenomenon that has emerged from the study of orientifold models in String Theory. It occurs whenever the vacuum is to contain different collections of BPS branes whose simultaneous presence breaks supersymmetry at the string scale. It leaves behind scalar fields with exponential potentials that could have injected the inflationary phase of our Universe and have some intriguing indications for the low-frequency tail of the CMB power spectrum.

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