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MSSM-inflation model revisited

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“In this talk, I will show how the minimal supersymmetric model (MSSM) naturally embeds single field inflaton candidates. MSSM is an attractive theory as it also provides a Higgs with a mass as measured at CERN and a candidate for dark matter, whose predicted relic density can be compatible with the Planck measurement. I will therefore focus on three questions:

- how to build such an inflation model taking into account radiative corrections,
- what is implied for its parameter space if one requires that it is compatible both with high energy physics and cosmological observations, and how the reheating duration and the runnings of the parameters through the renormalisation group equations impact the results,
- what are its implications for cosmology beyond A_s and n_s .”

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