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High Energy Physics - Phenomenology

## Higgs inflation in minimal supersymmetric SU(5) GU1

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The Standard Model Higgs boson with large nonminimal coup gravitational curvature can drive cosmological inflation. We st inflationary scenario in the context of supersymmetric grand u point out that it is naturally implemented in the {\em minimal} s SU(5) model, and hence virtually in any GUT models. It is show appropriate K\"{a}hler potential the inflaton trajectory settles d Standard Model vacuum at the end of the slow roll. The predic cosmological parameters are also consistent with the 7-year V

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