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Study of the generalized Starobinsky inflationary model

We study one kind of generalization of the Starobinsky inflationary model (power-law type), which is characterized by the parameter p . In order to find the parameter p that is fixed with observations, we compute the cosmological parameters A_S , n_S , and r for several values of $p \simeq 1$. We have found that the value of $p=1.0004$ reproduces the value of the cosmological parameters in agreement with current observational data.

Tuesday, April 5, 2022, 14:15
D6-135

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