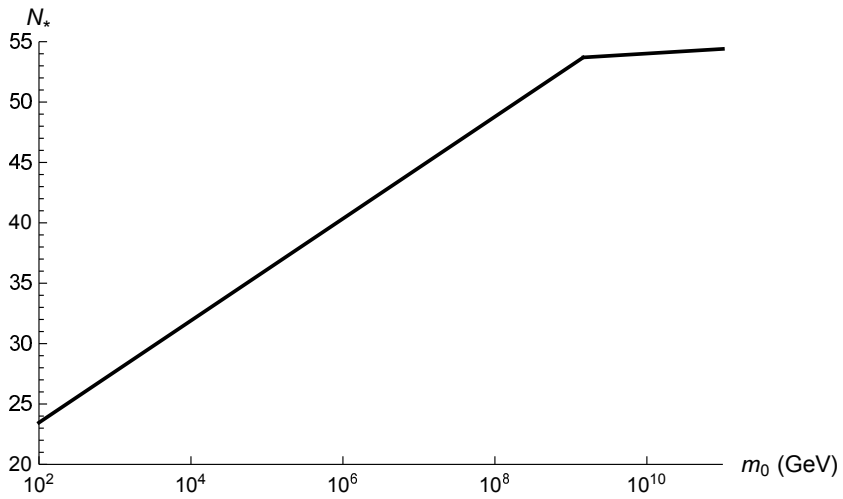

Fig. 4.11: Prediction of the model for N_*, with $\Gamma_\varphi \ll H_{TI}$ and n, g, H_*, Γ_φ and λ values from Table 4.2. (A plot of Eq. (4.52), with $m = m_0$ and $\Gamma = g^2 m_0$.)

Figs. 4.12–4.17, with the parameter values of Table 4.2. The predicted values of n_s and n_s' of the model for a thermal waterfall field mass of $m_0 \sim 10^3$ GeV for all three ϕ_* Cases are the same to within at least four significant figures. They are also both insensitive to the value of m_ψ within its allowed range. n_s and n_s' are shown in Table 4.6, with them both being within current observational bounds [40].

Quantity	Value
n_s	≈ 0.9645
n_s'	≈ -0.001259

Table 4.6: Prediction for n_s and n_s' of the model with primordial inflation being Chaotic Inflation, with $\alpha = 1$, $\Gamma_\varphi \ll H_{\rm TI}$, $m_\psi = 10^{-2}$ GeV, $m_0 \sim 10^3$ GeV and the parameter values from Table 4.2.