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The background evolution in general disformal gravity

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We study a subclass of GLPV modified gravity theories generated by a general disformal metric $\bar{g}_{\mu\nu} = g_{\mu\nu} + D(\phi, \partial\phi)\partial_\mu\phi\partial_\nu\phi$. By solving the background evolution equation, we found that such theory cannot provide the self-accelerating solution.

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