

Late-time power-law stages of cosmological evolution in teleparallel gravity with nonminimal coupling

Tuesday, 23 October 2018 17:05 (20)

We investigate the Universe evolution at late-time stages in models of teleparallel gravity with power-law nonminimal coupling and a decreasing power-law potential of the scalar field ϕ . New asymptotic solutions are found analytically for these models in vacuum and with a perfect fluid. Applying numerical integration, we show that the cosmological evolution leads to these solutions for some region of the initial conditions, and these asymptotic regimes are stable with respect to homogeneous variations of the initial data. The physical sense of the results is discussed.

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Session Classification : Gravitation and Cosmology