

Inflationary universe in deformed phase space Sáez–Ballester theory

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By proposing an appropriate dynamical deformation between the momenta associated with the scalar field (of the Sáez–Ballester theory) and scale factor of the spatially flat FLRW metric, we establish a modified cosmological model. Subsequently, for some particular cases, by focusing on the early epoch of the universe, we show that our model provides a more successful description for evolution of the universe with respect to the corresponding standard models.

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