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Singular Bounce in Generalised Brans-Dicke Theory

In this work, we present singular bounce scenario in the framework of the generalised Brans-Dicke (GBD) theory where an evolving BD parameter along with a self-interacting potential is considered. The GBD field equations are derived for an anisotropic space time to provide a more general approach to the cosmic expansion. The evolutionary behaviour of the Brans-Dicke scalar field, dynamical Brans-Dicke parameter and the self interacting potential are studied. Observational bounds on our model favours the Phantom dark energy phase.

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