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CPL Parameterized Equation of State of Cubic, Quadratic and Linear Terms of Λ CDM models

ABSTRACT

Generally the cosmological CDM models are constructed with $(\rho) a^3$. Considering a cubic function (ρ) , the vacuum energy density is calculated and corresponding constraints are tuned with Chevallier-Polarski-Linder (CPL) equation of state parameterization. During the construction of the Problem the function (ρ) is assumed to be carrying cubic, quadratic and liner terms, so that the model behaves to carry a comparatively complex system to and accommodate different possible conditions to represent dark energy.

Keywords:- CPL Parameterization, CDM model, Scale Factor

Field of contribution

Theory

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