Attractor Phantom Solution
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abstract ABSTRACT: In light of recent study on the dark energy models that manifest an equation of state \( w < -1 \), we investigate the cosmological evolution of such a phantom field in a specific potential, exponential potential in this paper. The phase plane analysis show that the there is a late time attractor solution in this model, which address the similar issues as that of fine tuning problems in conventional quintessence models. The equation of state \( w \) is determined by the attractor which is dependent on the \( \lambda \) parameter in the potential. We also show that this model is stable for our present observable Universe.