

## Abstract

I will study the BD theory in the context of hamiltonian formalism for an FRW-metric in vacuum. It can be shown that the results are similar to lagrangian method naturally. Then by introducing a special kind of deformation in its phase space the behavior of scale factor will be considered for  $\omega \longrightarrow \infty$ . The results can be interpreted as an alternative for standard inflation due to resolving horizon problem by existence of a quasi-static phase in the early universe