

Dynamical systems theory [1] have always been a valuable tool in the study of cosmology, indeed qualitative methods allow to characterize cosmological solutions of relevant physical meaning (e.g. stability properties, asymptotic behaviour etc)[2]. Here we briefly review some well established results for cosmological models in the framework of GR. Then we consider the application of such techniques to modified cosmological models which are gaining more and more relevance in the last few years, namely Loop Quantum Cosmology (LQC)[3]. In particular we consider static solutions of the semiclassical LQC modified equations for homogeneous and isotropic closed cosmological models ( $K = 1$ ) with a cosmological constant [4].

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