

## Cosmological Constant and Stability of the Cosmological Models

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Abstract: The importance of cosmological constant for the cosmological models is given. The variations of the cosmological model for parameters  $\lambda$  and  $k$  were discussed respectively. Near  $\lambda = 0$ , the cosmological model is unstable with the change of  $\lambda$ , and near  $\lambda = \beta = 0$ , the cosmological model is unstable with the change of  $k$ . So when we consider the stable cosmological model, we must consider the nonzero cosmological constant.

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