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Gauge fixing in unimodular gravity

In this talk the gravitational theory known as Unimodular Gravity is reviewed. In particular, a cosmological model is built and compared with the standard LCDM model. Once the dynamics of a homogeneous and isotropic universe is analyzed, cosmological perturbations are studied. These, unlike what has been reported in the literature so far, do present distinctions typical of the theory due to the unimodular condition. The fluctuations of dark matter density obtained in this theory are compared with the case of General Relativity, and possible implications for large-scale structure formation are discussed.

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