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Cosmological bounce in a modified gravity framework

In the present study, we have considered a scale factor corresponding to the bouncing universe. For this scale factor, we have demonstrated the reconstructed f(T) gravity in presence of bulk viscosity. The bulk viscosity coefficient has been chosen as a function of the Hubble parameter. In presence of this bulk viscous pressure, we have checked how the equation of state parameter is behaving in a bouncing universe. Also, the generalized second law of thermodynamics has been tested. Finally, we have discussed how this bounce can occur with the scalar field model.

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