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(G*) Analyzing Loop Quantum Cosmology of Bianchi II Space with Numerical Methods

Monday 7 June 2021 12:01 (3 minutes)

Loop Quantum Gravity (LQG) is one proposed approach to quantize General Relativity. In previous literature LQG effects have been applied to Bianchi II spaces and here we numerically solve the resulting equations of motion using the fixed step 6th order Butcher-1 Runge-Kutta method. We also test, for a wide range of initial conditions, analytic transition rules for the Kasner exponents and show in which cases these transition rules hold.

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