



Contribution ID: 79

Type: Oral Presentation

$f(R)$ oscillating universes

Tuesday, 26 June 2018 12:40 (20 minutes)

The purpose of this paper is to investigate the oscillatory behavior of the universe through the Schrödinger equation and a modified gravitational background described by the theory of $f(R)$ gravity. Motivation for this stems from the proven periodic structure of the universe when described within the scope of the general theory of relativity. A further analysis of different $f(R)$ toy models and the equation of state associated with each epoch of interest results in different behaviors for the wave-function of the universe.

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Dr. Amare Abebe
North West University
amare.abbebe@gmail.com

Primary author: Mr NAMANE, Neo (North West University)

Co-author: Dr ABEBE, Amare (North-West University)

Presenter: Mr NAMANE, Neo (North West University)

Session Classification: Theoretical and Computational Physics

Track Classification: Track G - Theoretical and Computational Physics