



Contribution ID: 219

Type: Talk in the parallel session

Inflationary supersymmetric FRLW quantum cosmology

Tuesday, 6 July 2021 08:50 (20 minutes)

We consider inflationary scenarios of the supersymmetric quantum cosmology of FRLW models with a scalar field. We use the superfield formalism with a superpotential for the scalar superfield. From the probability amplitude solution of the supersymmetric Wheeler-DeWitt equation, we compute an effective probability density from which we get mean trajectories that are parametrized by the scalar. We analyse several superpotentials, for which the resulting evolutions of the scale factor are consistent with inflationary scenarios. For these cases, we show the acceleration, the e -folds and the horizon.

Primary authors: RAMIREZ ROMERO, Cupatitzio (Benemérita Universidad Autónoma de Puebla); Dr VAZQUEZ BAEZ, Victor (Benemérita Universidad Autónoma de Puebla); Mr MARTINEZ PEREZ, Eliceo (Benemérita Universidad Autónoma de Puebla)

Presenter: RAMIREZ ROMERO, Cupatitzio (Benemérita Universidad Autónoma de Puebla)

Session Classification: Extended Theories of Gravity and Quantum Cosmology

Track Classification: Alternative Theories: Extended Theories of Gravity and Quantum Cosmology