Quantum dynamic of massive particle On 1+3 De Sitter space-time

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Abstract
The phase space which is related to the motion of massive particle on 1+3- De sitter space is a 3-dimensional complex sphere. Our main aim in this study is describing this movement in the frame quantum mechanics. Transferring from classical mechanic to quantum mechanics is possible by means of coherent states. Thus, after determination of this state, we quantize some of the classical observables.

Keywords: coherent states, quantize

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