
Stochastic Quantum Mechanics Spacetime Prugovecki Eduard

stochastic quantum mechanics and quantum spacetime - quantum spacetime, we first introduce nonrelativistic quantum mechanics on stochastic phase space as the first extrapolation of conventional quantum theory. then we move on to the relativistic regime, by allowing the poincare group to take

stochastic space-time and quantum theory: part a - stochastic space-time and quantum theory: part a carlton redefrick central research group (dated: december 2, 2018) much of quantum mechanics may be derived if one adopts a very strong form of mach's principle, **the theory of stochastic space-time. 1. gravitation as a ...** - mechanics is unique version of quantum mechanics where the quantum fluctuations are represented as manifestations of stochastic geometry of spacetime with a constant diffusion coefficient $\nu = \hbar/2m$ (see also the review [2]). **stochastic, granular, five-dimensional space-time: a root ...** - a root model for both relativity and quantum mechanics, and a new interpretation of time carl redericfk central research group (dated: may 13, 2019) a stochastic model is presented for the planck-scale nature of space-time. romf it, many features of quantum mechanics and relativity are derived. as mathematical points have no extent, the stochastic manifold cannot be tessellated with points and ... **stochastic models of quantum mechanics - a perspective** - a subjective survey of stochastic models of quantum mechanics is given along with a discussion of some key radiative processes, the clues they offer, and the difficulties they pose for this program. **stochastic granular space-time and quantum mechanics** - not to show the effects on physical laws of a stochastic space, but to show that the body of quantum mechanics can be deduced from simply imposing stochasticity on the space- time. **charge without charge in the stochastic interpretation of ... - 2** interpretation of quantum mechanics. before beginning this project, i should say a few words about the stochastic interpretation of quantum mechanics and why it is interesting. **stochastic space-time and quantum theory - darkzoo** - stochastic space-time and quantum theory 15 june 1976 carlton frederick central research group, box 31, ithaca, nezv york 14850 (received 9 june 1975; revised manuscript received 1 march 1976) much of quantum mechanics may be derived if one adopts a very strong form of mach's principle such that in the absence of mass, space-time becomes not flat but stochastic. this is manifested in the ... **quantum mechanics in a two dimensional spacetime: what is ...** - quantum mechanics suggests the study of such models may shed some light on interpretive issues. key words: quantum mechanics, special relativity, stochastic processes, **what branching spacetime might do for physics** - what branching spacetime might do for physics mark f. sharlow abstract in recent years, the branching spacetime (bst) interpretation of quantum mechanics has come under study by a number of philosophers, physicists and mathematicians. this paper points out some implications of the bst interpretation for two areas of quantum physics: (1) quantum gravity, and (2) stochastic interpretations of ... **the theory of stochastic space-time. ii. quantum theory of ...** - the nelson stochastic mechanics is derived as a consequence of the basic physical principles such as the principle of relativity of observations and the invariance of the action quantum.

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