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| A Model connecting Quantum, Diffusion, Soliton, and Periodic Localized States und Brownian motion Hajime Isimori (<i>Submitted on 21 Jul 2011</i>) We propose new equations of motion under the theory of the Brownian motion to connect the state of quantum, diffusion, soliton, and periodic localization. The new equations are nothing but the classical equations of motion with two additional terms and the one of them can be regarded as the the quantum potential. By choosing a parameter space, various important states are obtained. Further, the equations contain other interesting phenomena such as general dynamics of diffusior process, collapse of the soliton, the nonlinear extension of the Schr\"dinger equation, and the dynamics of phase transition. | ۱, : indor | PDF PostScript Other formats |
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