

UM Physics Department

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Title: Interference and Oscillation in Nambu Quantum Mechanics

Abstract:

Nambu Quantum Mechanics is a particular deformation of canonical Quantum Mechanics in which only the time-evolution of the “phases” of energy eigenstates is modified. Due to the limited nature of the deformation, the vector space structure of the state space and the Born rule are maintained. We discuss the effect that this deformation will have on oscillation phenomena, and the possibility that the deformation parameters may be constrained by experiment.