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Oscillation Phenomena in Nambu Quantum Mechanics

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In canonical quantum mechanics (QM), energy eigenstates can be thought of as evolving in the phase space of a classical harmonic oscillator. Nambu quantum mechanics is a particular generalization of canonical QM whereby this phase space is extended to that of an asymmetric top, introducing two "deformation parameters" . Canonical QM can then be interpreted as the limiting case where both of them vanish. We will discuss the motivation for and a few consequences of such a generalization, including the possibility of constraining the aforementioned parameters using experimental data on particle oscillation.

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