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Hamiltonian mechanics - Wikipedia

Hamiltonian mechanics is a theory developed as a reformulation of classical mechanics and predicts the same outcomes as non-Hamiltonian classical mechanics. It uses a different mathematical formalism, providing a more abstract understanding of the theory. Historically, it was an important reformulation of classical mechanics, which later contributed to the formulation of statistical mechanics

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Abstract. In this short chapter a summary is given and it is emphasized that nonlinear mechanics applied to molecular dynamics offer unprecedented details which help to understand the quantum behaviours of the molecules.