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Title: Operator techniques in the analysis of classical systems

Abstract: After a preliminary introduction to canonical (anti) commutation relations, and to the time evolution in quantum mechanics, we show how creation and annihilation operators can be used to construct models of certain macroscopic models. In particular we discuss how hamiltonian operators can be defined in a natural way, and how from these hamiltonians we can deduce the time evolution of some "classical observables". Among the possible applications, we will discuss crowd dynamics, closed biological systems, stock markets and some decision making process.