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The same program is accomplished for the geometrical structures relevant to describe quantum dynamics. Finally, it is shown that further properties that allow the explicit description of the dynamics of certain dynamical systems, like integrability and superintegrability, are deeply related to the previous development and will be covered in the ...

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## **Book Review: Classical and Quantum Dynamics in Condensed ...**

The quantum theory of rate processes evidenced in the NMR lineshapes of molecular rotors is presented, and illustrated with appropriate experimental examples from both solid- and liquid-

phase spectra. In this context, the everlasting problem of the quantum-to-classical transition is discussed at a quantitative level.

### **Classical and quantum molecular dynamics in NMR spectra in ...**

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We study the macroscopic dynamical properties of fermion and quantum-spin systems with long-range, or mean-field, interactions. The results obtained are far beyond previous ones and require the development of a mathematical framework to accommodate the macroscopic long-range dynamics, which corresponds to an intricate combination of classical and short-range quantum dynamics.

### **Classical dynamics generated by long-range interactions ...**

The paper presents a program to construct a non-relativistic relational Bohmian theory, that is, a theory of  $N$  moving point-like particles that dispenses with space and time as fundamental background structures. The relational program proposed is based on the best-matching framework originally developed by Julian Barbour. In particular, the paper focuses on the conceptual problems that arise ...

### **On the Conceptual Issues Surrounding ... - [link.springer.com](https://link.springer.com)**

How collective phenomena in classical and quantum worlds are linked is largely unknown. Synchronization constitutes one of the most basic cooperative dynamics in classical systems. It

indicates the...

### **Classical synchronization indicates persistent ...**

Phase-space picture. An  $N$ -particle system can be represented in non-relativistic quantum mechanics by a wave function  $(\psi, \dots)$ , where each  $x_i$  is a point in 3-dimensional space. This has analogies with the classical phase space. A classical phase space contains a real-valued function in  $6N$  dimensions (each particle contributes 3 spatial coordinates and 3 momenta).

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