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(57) Abstract:

METHOD AND SYSTEM FOR UNDERSTANDING DYNAMICS OF PROPERTIES USING QUANTUM COMPUTING ABSTRACT The invention relates to a method and system for understanding the dynamics of properties using quantum computing. The system comprises a quantum computing device with a quantum processor, quantum gates, and memory storage. Input means provide data related to system properties, while quantum algorithms executed by the quantum processor analyze this data to generate quantum states representing property dynamics. An output interface presents insights derived from the quantum states, offering a clear understanding of the system's behavior. The invention leverages machine learning algorithms for predictive modeling and incorporates visual representations for user-friendly interpretation. With the ability to receive real-time data and adaptive adjustment features, the system ensures accurate and dynamic analyses of property dynamics. This innovation finds applications in diverse fields, including physics, chemistry, biology, and materials science, heralding a new era in quantum-enhanced property understanding.

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