

Quantum Mechanics: Non-relativistic Theory

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@inproceedings{Landau1958QuantumMN, title={Quantum Mechanics, Non-Relativistic Theory}, author={Lev Davidovich Landau and Evgeny M. Lifshitz and Julian Sykes and John Stewart Bell and Morris E. Rose}, year={1958} }. Lev Davidovich Landau, Evgeny M. Lifshitz, +2 authors Morris E. Rose. Published 1958. QUANTUM MECHANICS. Non-relativistic Theory. Third edition, revised and enlarged ". Titles in the SeriesÂ g nine volumes: 1. Mechanics. 2. The classical theory of fields. 3. Quantum mechanics (non-relativistic theory). 4. Relativistic quantum theory. 5. Statistical physics. 6. Fluid mechanics: 7. Theory of elasticity. 8. Electrodynamics of continuous media. 9. Physical kinetics.

How does relativistic quantum mechanics differ from ordinary quantum mechanics? Is there anyone familiar with promising alternative theories of general relativity? By the way, this argument applies equally well for non-relativistic and for relativistic versions of quantum mechanics; yes, both of those have various other problems, so that their conflict with general relativity is not their most important issue. Of course, this being but a very simple (perhaps the simplest) rendition of the conflict, it can be evaded—for example, by delocalizing the “particle,” as it happens in string theory, where point-particles are replaced by strings: they (to which the Heisenberg’s indeterminacy relations apply) are not at the center-of-momentum (to which the co-movin