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Quantum Field Theory In theoretical physics, quantum field theory (QFT) is a theoretical framework that combines classical field theory, special relativity and quantum mechanics, but not general relativity's description of gravity. QFT is used in particle physics to construct physical models of subatomic particles and in condensed matter physics to construct models of quasiparticles. Quantum field theory - Wikipedia Because of the phenomenal experimental success of quantum electrodynamics (QED), quantum field theory became a rigorous body of physical knowledge, as established as nonrelativistic quantum mechanics. In the 1970s and 1980s, because of the growing success of gauge theories, it was clear that a typical 1-year course in quantum field theory was rapidly QUANTUM - msu.ru Quantum Field Theory. First published Thu Jun 22, 2006; substantive revision Mon Aug 10, 2020. Quantum Field Theory (QFT) is the mathematical and conceptual framework for contemporary elementary particle physics. It is also a framework used in other areas of theoretical physics, such as condensed matter physics and statistical

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