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The quantum mechanical theory of the atom, based on that duality, brought many dramatic successes, but it was only in 1927, after many of these, that Dirac was able to extend the theory to include light itself and thus lay the true groundwork for quantum optics.

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Quantum Optics is a rapidly progressing field well suited to probe the many fundamental issues raised by the subtleties of quantum physics. This book consists of a collection of reviews and papers that highlight the most important challenges faced in this area of research, including topics such as cavity QED, quantum entanglement, decoherence, matter waves and nonlinear optics.

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Modern Challenges in Coupled Quantum-Continuum Modeling and Control of Closed and Dissipative Systems Roderick Melnik Wilfrid Laurier University & University of Waterloo, Canada

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Chapter 3: Modern Challenges: Theory 85 become disturbed once quantum fluctuations are taken into account. We have in mind those fluctuations which result from the fact that the occupation-number operator of the particle at site 0, that is, \hat{n}_0 , does not commute with the quantum Hamiltonian (3.55).

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List of unsolved problems in physics - Wikipedia

It was a tempting challenge to try to sharpen the points at issue in the long lasting debate on the Copenhagen Spirit, to assess the significance of various arguments from our present vantage point, seventy years after the advent of quantum theory, where, after all, some problems appear in a different light.

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