

The Unquantum Effect

Resolving the Wave-Particle Paradox

OVERVIEW

Who is this Eric Reiter that claims to have mounted the only serious challenge to quantization? Admittedly, reason for skepticism is high: no physics degree, not working in an institution, working alone, not published in a peer reviewed journal, and patents were filed.

None of that matters one wit. What matters is that these experiments work and great care was taken to eliminate error. You have the luxury of examining a detailed graphic account of 9 years of work. Many experiments are described with photos, schematics, actual data plots, and everything needed to reproduce the work.

My theory shows how to derive the photoelectric effect, Compton effect, Planck's black body equation, and other fundamental effects, free of wave-particle duality. I start with three postulates, show they work, and used the theory to predict new experiments that worked, like a good theory should.

Concerning the history physics, I copied important reference pages for you and my writings are all well referenced.

Wave-particle duality is the most disturbing problem in the history of physics. It has been a problem since Einstein's light quantum hypothesis of 1905. Particles don't diffract. Waves smeared over the whole universe do not decide to instantaneously collapse somewhere. Waves and particles are mutually exclusive ideas. We had a paradox. A paradox is something that is contradictory, yet seems to be true. A solution to this paradox implies that other seemingly paradoxical problems are solvable. A solution to this problem implies the possibility of a totally understandable world.

This book is a collection of dated chapters with additions and editing. There is repeated material among some chapters. *An Understanding of the Particle-like Property of Light and Charge* (2001) is the most difficult, but may be the most important. It predicts

experiments that were later confirmed. *A Serious Challenge to Quantization* (2003) shows the search, discovery, and development of the *unquantum effect*. The chapter *Exposure of Physics Misconceptions* contains ample evidence that data and ideas were distorted to make people think quantum mechanics must be right. *Photon Violation Spectroscopy* (2005) describes developed experimental procedure, and repeats material from previous works. *Particle Violation Spectroscopy* demonstrates the *unquantum effect* for matter waves.

The *Spectroscopy* chapters were originally patent applications and are archived at www.uspto.gov. After several attempts to publish in mainstream scientific journals, I was compelled to develop the *unquantum effect* into methods of measurement useful in material science. They were rejected because it violated accepted physics. I did not need any stinking patent. By filing at the USPTO, my work becomes published and dated. Mainstream journals, including the patent office, are controlled by people invested in photons, and they are not about to publish something that makes them look bad.

Although the new physics presented here does embrace quantized emission, currently accepted physics calls for matter and energy to be quantized for both absorption and emission. Here, that generality has been experimentally defied, justifying the *unquantum* term. The *unquantum effect* shows that absorption is not quantized and can be continuous.

Many have written that there must be something wrong with quantum mechanics. However, quantum mechanics remained strong because no one came up with an experiment defy its predictions. I expose experimental, theoretical and historical distortions that have confused physics for 100 years. In addition to revealing an incredible new physics, this book corrects what seems like the most profound collective intellectual blunder that ever happened.

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