

# The Unquantum Effect

## Resolving the Wave-Particle Paradox

### OVERVIEW

This book is a collection of essays created for different purposes, and therefore has repeated material.

*New Experiments Call for a Continuous Alternative to the Photon Model* is my most recent writing and was delivered to the 2015 SPIE Optics conference.

*Experiment reveals an Understandable World* is a simplified introduction to my unquantum work.

*An Understanding of the Particle-like Property of Light and Charge* (2001) is theory and historical analysis. It is the most difficult essay here and contains some speculation.

*A Serious Challenge to Quantization* (2003) shows how the unquantum effect was discovered and developed.

*Exposure of Physics Misconceptions and Beam-Split Tests of Past* reveals how famous experimental data and ideas were distorted to make people think quantum mechanics must be right.

*Photon Violation Spectroscopy* (2005) describes perfected gamma-ray unquantum experiments, and reveals how the unquantum effect responds to physical variables. It all made sense.

*Particle Violation Spectroscopy* demonstrates the unquantum effect for matter-waves.

A translation of Planck's 1911 paper is presented here and nowhere else.

Three photo essays are included for pleasure reading.

The two *Spectroscopy* chapters were originally patent applications and are archived at [www.uspto.gov](http://www.uspto.gov). After six attempts to publish in mainstream scientific journals, I was compelled to develop the unquantum effect into methods of measurement, useful in material science. By simply filing, my work became published and dated. In *Photon Violation Spectroscopy* I detailed 20 experiments, and the patent examiner inexplicably told me I gave them no data. All correspondence is viewable at the USPTO PAIR website for you to judge for yourself.

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 can be continuous, not always quantized.

Many have written that there must be something wrong with quantum mechanics. Quantum mechanics remained strong because no previous experiment defied 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.

Eric S Reiter, December 2015

**ACKNOWLEDGEMENTS** Special recognition is to Ken Kitlas for technical support, ideas, and equipment loans. Ken first suggested that the beam-split experiment should be done with gamma-rays instead of x-rays. Michael Kan helped with many technical issues. Robert A Wolf provided much assistance and translated the article by Max Planck.