

# Using Boolean Logic to Research Quantum Field Theory

A presentation with properly cited resources.  
This presentation is made by the author  
**Andrew Nassif** himself.

# Stanford Encyclopedia's Definition

Stanford University

Quantum Field Theory

Published on Jun 22, 2006

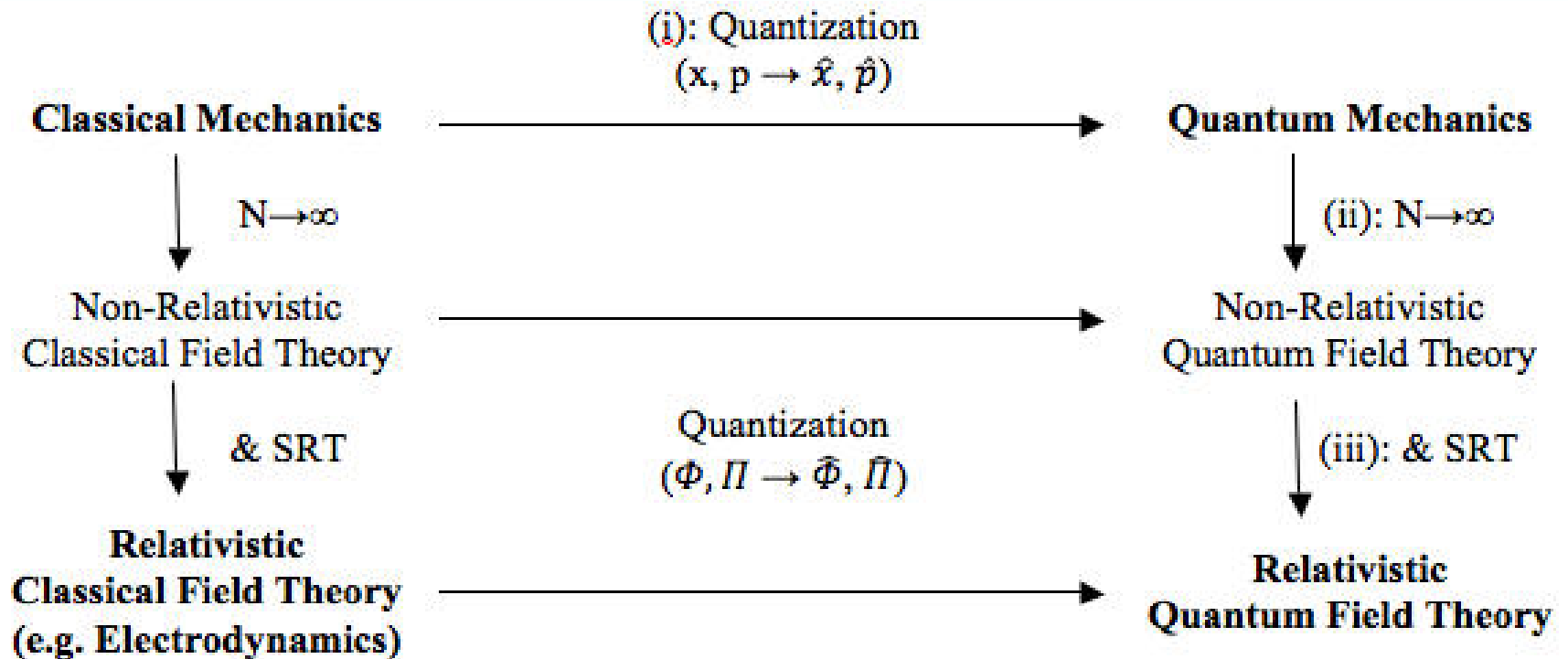
Last Revised on Sept, 27, 2012

Accessed on January 29th, 2013

<<http://plato.stanford.edu/entries/quantum-field-theory/>>

**The Stanford Encyclopedia of philosophy recognizes Quantum Field Theory as mathematical and conceptual framework that implements elementary particles in particle physics. This also acquired the theory as a sub subject of both Quantum Physics and Particle Physics. Stanford University uses those facts to explain QFT as a widely discussed subject in the field of science and mathematics itself. In comparison to other theories on the composition of our universe and matter itself, there is no conical definition for QFT. This has been quoted on the first paragraph of section one of the Stanford Encyclopedia. So far, there is a different way to access QFT in its relation with special general relativity theory and general relativity theory as well as its relation to statistical and solid physics. Though, we may not know the complete composition of the universe we know that everything living in this planet has a cellular structure and that we are all made of dry matter as well as composed of atoms. However, the theory that those atoms combine as strands and strings in order to compose us related more on the topic of Super String Theory.**

# First Figure Found in Stanford Encyclopedia on the Subject



# Robert D. Klauber's Guide to QFT

Dr. Robert D. Klauber

Student Friendly Quantum Field Theory

Last Revised in January, 2013

Last Accessed on 1/29/2012

<<http://www.quantumfieldtheory.info/>>

**Dr. Klauber describes the information he gathered on Quantum Field Theory as all the subject he compiled over 20 years ago when he first studied it. He also used the same description of the bird's eye view as being the view of relativistic and non relativistic theory, this makes Klauber's definition statistically similar to the definition of the Stanford Encyclopedia. He also goes on to explain topics such as the transitional aptitude of a photon, as seen on page 2 of the first chapter of his series. This can provide a verified view of the mathematics and physics involved in Quantum Field Theory. Another thing that interest me was his 2 page for 1.3 had the Bhabha Structural scattering as seen in many other text books as well. The Bhabha scattering is basically the scientific model of the valence of an electron potential as described in Quantum Field Theory. This also includes antiparticles and its accordance with time during the valence of particle movement as viewed in a periodical and descriptive matter. This helps the young physicist pick up on the basic definition of many parts of Quantum Field Theory.**

# Key Terms

- QFT: Acronym for Quantum Field Theory
- Particle Physics: the study of composition of matter in view of particles
- Framework: The basic parts that build a subject
- Statistical Physics: The study of physics based on mathematical statistics, logic, and number theory
- Matter: What theoretically composes thing, matter is the composition of us

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The Best Boolean Search was when I searched Framework of QFT in Particle Physics because it provided the most explanatory results on the subject through a theorist's and a scientist point of view, making it perfect for my research.