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## **Quantum Electromagnetics A Local Ether**

The theory of Quantum Electromagnetics presents a wave

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equation which is constructed, in compliance with Galilean transformations, for electromagnetic and matter waves. A fundamental feature entirely different from the principle of relativity is that the wave equation is referred specifically to the proposed local-ether frame.

## **Quantum Electromagnetics: A Local-Ether Wave Equation**

...

Quantum Electromagnetics - A Local-Ether Wave Equation Unifying Quantum Mechanics, Electromagnetics, and Gravitation. Ching-Chuan Su Department of Electrical Engineering National Tsinghua University Hsinchu, Taiwan Abstract - The theory of Quantum Electromagnetics presents a wave equation which is constructed, in compliance with Galilean transformations, for electromagnetic and matter waves.

## **Quantum Electromagnetics - A Local-Ether Wave Equation**

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...  
For electromagnetic wave, the local-ether wave equation accounts for a wide variety of propagation phenomena, including those commonly ascribed to the general relativity. For matter wave, the wave equation leads to modifications of Schrödinger's equation which in turn leads to a unified quantum theory of electromagnetic and gravitational forces in conjunction with the identity of inertial and gravitational mass.

## **Quantum Electromagnetics - A Local-Ether Wave Equation**

...  
The consequences of the wave equation are in accord with a wide variety of experiments which are commonly ascribed to the special relativity, the general relativity, the Lorentz mass-variation law,...

**A local-ether wave equation unifying quantum mechanics**

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For electromagnetic wave, the local-ether wave equation accounts for a wide variety of propagation phenomena, including those commonly ascribed to the general relativity. For matter wave, the wave equation leads to modifications of Schrödinger's equation which in turn leads to a unified quantum theory of electromagnetic and gravitational forces in conjunction with the identity of inertial and gravitational mass.

## **Quantum electromagnetics - A local-ether wave ... - CORE**

An electromagnetic wave propagates at a constant speed with respect to the associated local ether, independent of the motions of source and receiver. Based on this local-ether model of wave...

## **A local-ether model of propagation of electromagnetic wave**

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Quantum Energy Variation and Resonant-Absorption Condition Based on the local-ether wave equation, it has been found that the mass of a particle increases with its speed by the famous Lorentz mass-variation factor, except that the speed is referred specifically to an ECI frame for earthbound particles.

**arXiv:physics/0208084v1 [physics.gen-ph] 23 Aug 2002**

The ether could be a continuum described by continuous mathematical models, with differential geometry extended to fractal geometry. Once the physics of chaos and nonlocality in the ether is better understood, quantum ether engineering might permit controlling fundamental chance and change. Life, mind and Mind in the ether and beyond

**Ether, quantum, chaos: Building blocks for transcendence**

...

In the 19th century, luminiferous aether (or ether), meaning light-

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bearing aether, was a theorized medium for the propagation of light (electromagnetic radiation). However, a series of increasingly complex experiments had been carried out in the late 1800s like the Michelson-Morley experiment in an attempt to detect the motion of Earth through the aether, and had failed to do so.

### **Aether theories - Wikipedia**

This meant that either quantum physics was incomplete or non-local events [i.e., instantaneous information transmission] occurred." The Cosmic Code, by Heinz Pagels, Bantam Books, NY, 1982, p. 139. Einstein's Theory of Relativity is also incomplete, as physicists have not, as yet, obtained a Grand Unification Theory based upon it.

### **Tesla vs. Einstein: The Ether & the Birth of the New ...**

The quantization of the electromagnetic field, means that an

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electromagnetic field consists of discrete energy parcels, photons. Photons are massless particles of definite energy, definite momentum, and definite spin.. In order to explain the photoelectric effect, Albert Einstein assumed heuristically in 1905 that an electromagnetic field consists of particles of energy of amount  $h\nu$ , where  $h$  ...

## **Quantization of the electromagnetic field - Wikipedia**

Personally, I think you are right. The ideas are the same with respect to both describing something that permeates all of space (and, time) and acts on "everything". I would not say "everything" for a single field though since Physics offers up different fields for different purposes: We have motion fields (describing the flow of a liquid for example), we have temperature fields ...

## **spacetime - Ether vs. Quantum Field Theory - Physics**



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## **Stack ...**

quantum states in such an atom depend on the mass of electron, which in turn has been known to depend on speed. However, according to the local-ether model, the atom speed that determines the mass variation is referred uniquely to an ECI (earth-centered inertial)

## **Resonant Absorption between Moving Atoms due to Doppler ...**

The speed restriction that applies to the propagation of transverse electromagnetic wave quanta through the ether does not apply at the subquantum level. Bell's theorem tells us that no theory explaining quantum phenomena in terms of local hidden variables can account for distant entanglement. But subquantum kinetics does not have the problems ...

## **The Cosmic Ether: Introduction to Subquantum Kinetics**

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Within the chapters of this book, we will show that the Aether is a fabric of quantum rotating magnetic fields with electromagnetic, electrostatic, and gravitational dipole structures. Our theory identifies subatomic particles as angular momentum encapsulated in a quantum, rotating magnetic field.

## **Secrets of the Aether**

aether/ether was intended. That said, Pauli and other writers have used "ether" as a synonym for electromagnetic field. The advantage that such an entity has over the earlier material medium ether is that (a) it doesn't result in the various difficulties that came out of material medium ether theories and (b) it doesn't leave a material

## **Is the quantum field an aether? | Physics Forums**

the local-ether model is still in accord with the Michelson-Morley

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experiment which is known to make the classical ether notion obsolete. Moreover, by modifying the speed of light in a gravitational potential, this simple propagation model leads to the deflection of light by

**arXiv:physics/0208082v1 [physics.gen-ph] 23 Aug 2002**

(or quantum effects in electromagnetics, or quantization of electromagnetic fields) so as to render it more accessible to a larger community, and thereby popularizing this important field. This name is appropriate as it is expected that these effects will be felt across the electromagnetic spectrum in addition to optics. The rise of the importance of quantum electromagnetics is spurred by technologies for single photon sources and measurements [5, 6], the

## **Quantum Electromagnetics: A New Look, Part I**

The famous Fizeau's interferometry experiment with flowing

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water is commonly cited as a demonstration of the velocity transformation in the special relativity. In this investigation, by taking into account the modification of the propagation velocity due to the motion of dielectric medium and the modification of the propagation length due to the Sagnac effect, an entirely different ...

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