**HYPOTHESIS FOR POSSIBLE STAR TRAVEL**

**By J. David Baxter**

James Clerk Maxwell calculated the speed of light in terms of vacuum permeability and vacuum permittivity. In nature, these values are constants, and no mass can travel faster than the speed of light in a vacuum. The calculation for light speed in a vacuum is 1 over the square root of vacuum permeability times 1 over the square root of vacuum permittivity. The result is a speed of 300,000 kilometers per second. This is the natural conventional speed of light.

Permeability is magnetics. Permittivity is electrostatics. In theory it should be possible to use and extract these properties together in such a way as to reduce vacuum permeability and vacuum permittivity. If this was done by a factor of one million, in that space, light speed would expand by factor one million. Relativity equations would also be proportionately altered.

The quantum vacuum is filled with great energies. Coupled with vacuum electrostatics and vacuum magnetics, are vacuum fluctuations or the zero-point-energy. In a Physical Review A paper, titled, “INERTIA AS a ZERO-POINT-FIELD LORENTZ FORCE", B. HAISCH, ALFONSO RUEDA, H.E. PUTHOFF, PHYSICAL REVIEW A, VOL. 49, NUM. 2, FEB. 1994, Dr. Hal Puthoff, of the Institute for Advanced Studies at Austin, and his associates, suggest that the property of inertia might be a resistance to acceleration, from a relation to vacuum fluctuations.

If these properties can be used together as an extraction, then a million fold reduction of those properties should also reduce inertial resistance to acceleration by a factor of one million.

Traveling into this engineered space would make it possible for a spacecraft to quickly accelerate to close to a million times natural conventional light speed, with very little inertial resistance.

With these space properties going into a process of reduction, it should be possible to project this altered space into the path of an accelerating spacecraft. Another approach might be for a micro-space to be projected from the skin of an accelerating space craft. Basically, the spacecraft would use the zero-point-energy relationship to the vacuum electrostatics, and vacuum magnetics to eat or absorb the permeability and permittivity of the quantum vacuum, to reduce resistance by a magnitude of one million, as the spacecraft accelerates through that space. Reduced vacuum fluctuation conditions are also known as negative energy. Some aerodynamic related principles might also have to be included.

The problem that needs to be overcome is the example of trying to push a car from the inside, where all forces cancel into zero net motion. Somehow the altered space has to be ahead of the spacecraft as it accelerates through it, possibly using a Megahertz rapid pulsing process. If vacuum permeability and vacuum permittivity values are plugged into a calculation for resonate frequency, the rate of pulsation would be close to 48.8 Megahertz.