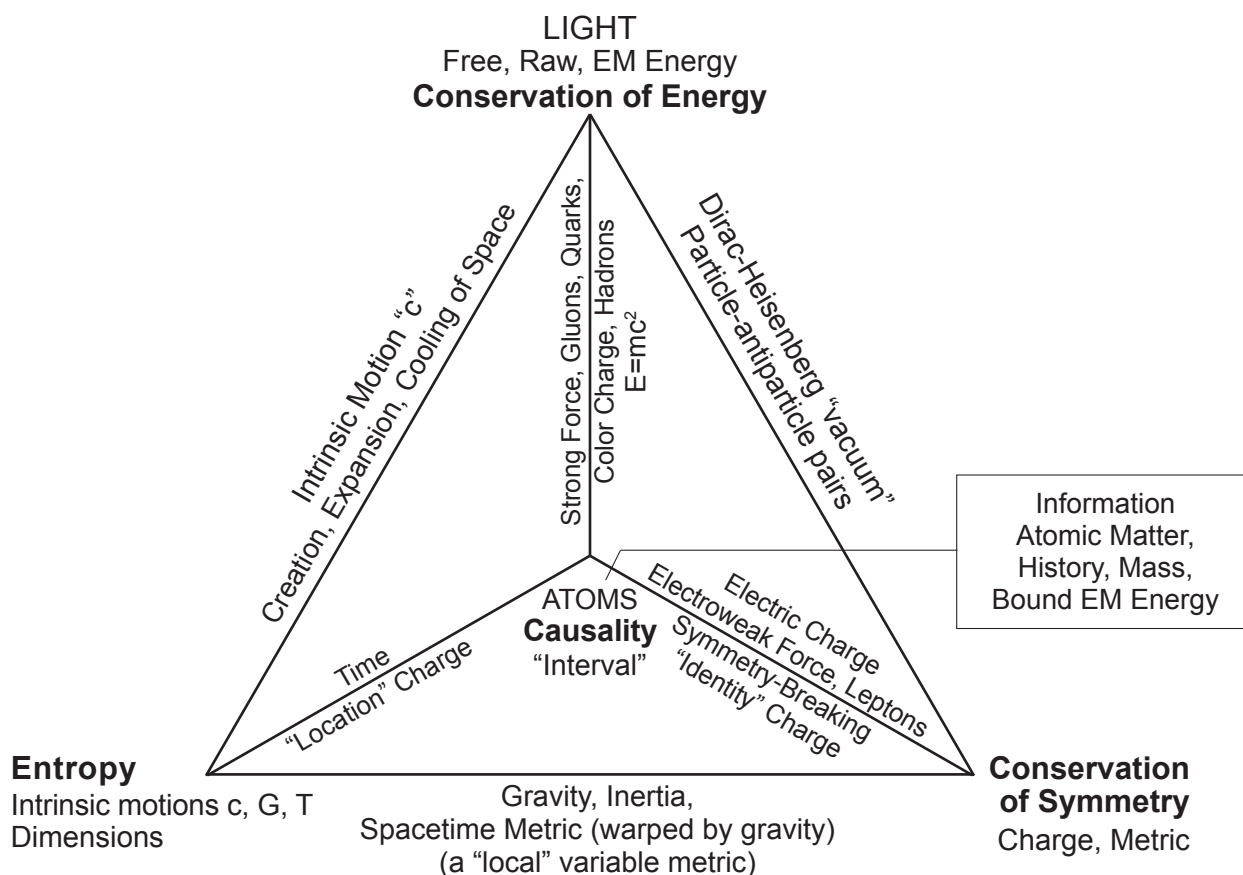


Fig. 7

# THE SYMMETRY GROUPS OF LIGHT: THE BROKEN SYMMETRY OF OUR MATERIAL UNIVERSE

NO ANTIMATTER—COMPARE WITH LIGHT-ONLY UNIVERSE: (Fig. 6)



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<http://www.johnagowan.org/trintxtcut.html>

<http://www.johnagowan.org/tetraz1.gif>

A "Tetrahedron Model" of the 4 Forces,  
Conservation Laws, and Atomic Matter  
(symmetry-breaking by the weak force)

Symmetry conservation is accomplished through charge conservation, inertial/metric symmetry, and the gravitational conversion of bound to free energy in stars, quasars, and Hawking's "quantum radiance" of black holes. The negative energy of gravity and the negative charge of antimatter allow the Cosmos to be born as a zero-sum quantum fluctuation of the "Multiverse." In "Hawking radiation," gravity and antimatter again act in concert, returning the Universe to the perfect symmetry of light, the ultimate fulfillment of Noether's symmetry conservation theorem. (See: [www.johnagowan.org/appendix1.html](http://www.johnagowan.org/appendix1.html))