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On the discovery of this equation

by

Michael Lewis

The search for this equation began around 1958 in a Richland, Washington high school physics class. Several persons in that class could verify the event today.

Collection of clues, understanding, principles and knowledge of importance to the problem spanned at least six different intervals of study, military service, employment and higher education in technical fields until the 1981 discovery in Aberdeen, Washington. During most of that time I told no one of my search for it. Only when the discovery was imminent was one person informed of my goal.

The equation slowly emerged in a series of brainstorming sessions that began after an hour of viewing the star Sirius through a two inch refractor in Aberdeen, Washington. These lasted several hours for most of a week. During that time my head was almost constantly filled with infinite space and time, galaxies, stars, high energy plasma, excited atoms and transitioning electrons, equations, moving and stationary waves, wavefronts, flexible topology, and motion as an observer alongside the waves. Significant to the solution was the understanding that in cosmology, light-like waves have no other constants than the speed of light, c , and the action quantum, h .

Discovering this equation required viewing the standard model for light-like waves as being too highly entrained in the physics of electric and magnetic fields. Not enough interest exists in its fundamental simplicity; it APPEARS to be more properly a wave in the topology of the space-time field that is close to $SU(2) \times U(1)$, equivalent to xyc . Almost any two dimensional pair of generally orthogonal fields that affect light-like waves could be used in place of the electric and magnetic fields. It is a wrong interpretation of light to assume that the $E \times H$ fields used to resolve and manipulate light-like waves are the simplest and most fundamental fields in which light moves. It moves in something topological about space.

I still possess several of the items purchased by me during the final months of preparation. These include a pH meter, helium-neon laser, two inch refracting telescope, four volume set of atomic energy spectra and several other books on space, astronomy and physics, etc.

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