

## **BEYOND MATHEMATICS, A STANDARD ELEMENTARY PARTICLE, AND THE UNIFIED FIELD OF ENERGY**

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### **Abstract**

Teaching methods are presented based on a theoretical logical thesis of: "A Standard Elementary Particle," instead of the current 200 odd different subatomic particles, and their plausible derivation from such a standard particle, similar to the derivation of our body cells from a multipotential "Stem Cell,"

The thesis reintroduces the theory of "A Material Ether" as a necessary medium for the transmission of the "Electro-Magnetic-Gravitational Waves".

It solves and demystifies the following riddles:

1. The "Aether Vacuum", by offering a plausible composition of "An elastic solid medium," that meets the specific physical requirements needed for the transmission of the electro magnetic gravitational waves, Explains the vast amount of "Potential Energy" that such an "Aether" can carry, That there is NO "Action at a Distance",
2. It explains "Quantum Mechanics," on simple Newtonian principles, It nullifies the "Heisenberg Uncertainty Principle," showing that there is no uncertainty whatsoever, for individual particle interactions, and the existence of "Functional Barriers" for the disc like aggregates of contiguous particles representing "Intra-atomic Electrons," and A full "Physical" explanation of the their quantum numbers, their electronic shells, as well as: The "Pauli Exclusion Principle".
3. The possible explanation of Hubble's Law without an expansion of the Universe, that the "Cosmic Red Shift" gives the illusion of an expanding Universe similar to that of the "Bent Stick" in the water due to refraction.
4. That the Big Bang "Inflation Theory," for the origin of the Universe is: a "Figment of Imagination" similar to Aladin's "Djinni out of the bottle." and a "Fantasy of Mathematics" with complete lack of touch with reality.

The thesis suggests a plausible explanation - Modus Operandi - for, and composition of:

- i) Gravity,
- ii) The structure of nucleons,
- iii) The nature of the strong force,
- iv) The structure of the string of "The String Theory."