

A Model of the Human Atom

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Abstract

In this short essay, the author drafts a model of the occult constitution of a human being consistent with the most recent theories about the ethereal space-time matrix discovered by quantum physics, theories that have confirmed core tenets of the Ancient Wisdom and previous clairvoyant research in nuclear physics

Introduction

According to Hindu philosophy, the fundamental operating principles of the universe are sattva, rajas, and tamas. In terms of material substance, these three gunas correspond to the chargeless neutron (sattva), the positive proton (rajas) and the negative electron (tamas) of the physical atom.

Modern (quantum) physics has shown that these three functional units of the atom are comprised of elementary particles. These elementary particles are 12 fermions (6 quarks and 6 leptons) and 4 bosons (virtual force-carrier particles).

As of 2012, a fifth boson, the mass generating Higgs particle, has completed the current standard model of quantum physics accounting for everything in the material universe except the force of gravitation. It is possible that sub-quark particles exist, but current physical instruments are not powerful enough to detect them.

In contrast to the elementary particle theory on which the standard model is based, the string theory states that the point-like units of particle physics can also be modeled as one-dimensional objects called strings. The properties of mass, charge and spin would be determined by their vibrational state. In this way, all of the different elementary particles may be viewed as vibrating waves.

A *closed* vibrating string would provide an adequate physical model of the *elementary vortex* that generates matter in the living

energy field which we call space-time. Such vortex has been claimed to have been observed or visualized by the use of clairvoyant powers before the discoveries of modern quantum physics.

The Ultimate Physical Atom

In 1878, Edwin Babbitt published a diagram of “the general form of the Atom” in his book *The Principles of Light and Color*.¹

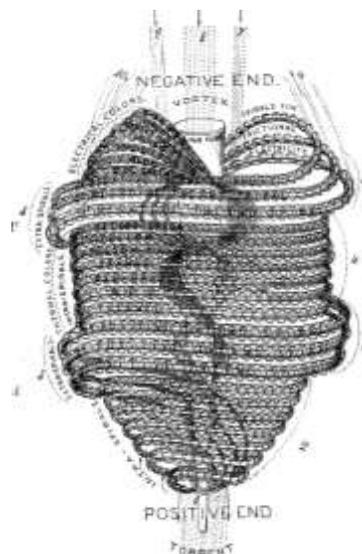


Figure 1. Babbitt's diagram of the atom.

In 1909, Annie Besant (1847–1933) and Charles Leadbeater (1847–1932) first published the results of their clairvoyant research since 1895 in the book *Occult Chemistry*.² They reported a revised version of Babbitt's atom, named “ultimate physical atoms” (UPA,) a chiral pair of 10 vibrating “whorls” or spirilla (3 major and 7 minor) in closed loops.

About the Author

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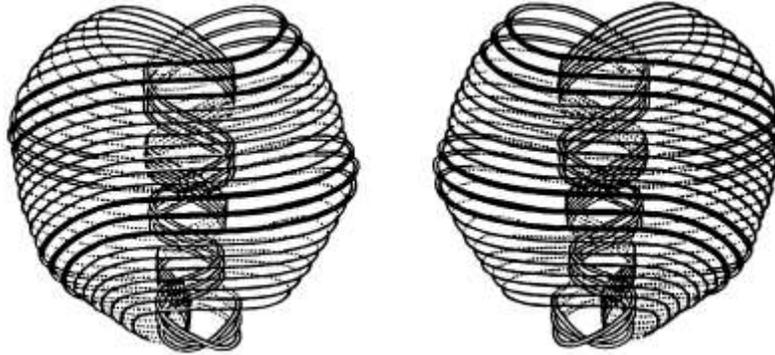


Figure 2. Ultimate Physical Atoms according to Besant and Leadbeater

The congruence between these extrasensory perceptions of subatomic vortices and a possible “sub-quark state of the $E8 \times E8$ heterotic superstring” of quantum physics has been proposed by the theoretical physicist and Theosophist Stephen Phillips. He initially published his correlation of ideas in the book *Extra Sensory Perception of Quarks*³ and later in the *Journal of Scientific Exploration*⁴ and his website.⁵

Abstract⁴ - A century-old claim by two early leaders of the Theosophical Society to have used a form of ESP to observe subatomic particles is evaluated. Their observations are found to be consistent with facts of nuclear physics and with the quark model of particle physics provided that their assumption that they saw atoms is rejected. Their account of the force binding together the fundamental constituents of matter is shown to agree with the string model. Their description of these basic particles bears striking similarity to basic ideas of superstring theory. The implication of this remarkable correlation between ostensible paranormal observations of subatomic particles and facts of nuclear and particle physics is that quarks are neither fundamental nor hadronic states of superstrings, as many physicists currently assume, but, instead, are composed of three subquark states of a superstring.⁶

A rebuttal by a scientist of the Princeton Engineering Anomalies Research group⁷ and Phillips’s reply⁸ were also published. Another re-

buttal to Phillips’s analyses by a Yale University chemist has also been published.⁹

Still, Phillips upholds his views maintaining that “the existence of the Higgs field and the validity of the Higgs vortex/string model of quark confinement was published by Besant & Leadbeater 56 years before physicists conceived [the Higgs] particle.”¹⁰ According to Phillips, Geoffrey Hodson (1886–1983) had also reported evidence of similar subatomic “strings or flux tubes” in the 1950s.⁹

As Above, So Below

According to Alice A. Bailey in her book *The Consciousness of the Atom*, there are four kinds of atoms.

First, the atom of the chemist and physicist.

Secondly, the human atom, or man.

Thirdly, the planetary atom, energised by a planetary Logos, or the Heavenly Man.

Fourthly, the solar atom, indwelt by the solar Logos, or the Deity.¹¹

At the human scale, the correspondence of the physical atom of the chemist would be the “permanent atom” appropriated by the Spirit-Soul. The permanent atoms would engender *concentric* atomic, buddhic, mental, astral and physical quantum shells or bodies.

Permanent atom. Those five atoms, with the mental unit, one on each of the five planes of human evolution (the mental unit being also on the mental plane) which the monad appropriates for purposes of manifestation. They form a stable centre and are

relatively permanent. Around them the various sheaths or bodies are built. They are literally small force centres. (Extracted from the Glossary of *Letters on Occult Meditation*)¹²

Thus, it is plausible to postulate a model of the nucleus of the human atom comprised of a permanent Monadic essence (represented by the positive life of the protons) within a temporary egoic Soul (represented by neutrons). This nucleus would be enclosed by electron shells corresponding to the planes and subplanes of the solar system.

Bailey sums it up thus:

We have four states of intelligent activity, which we might term consciousness, self-consciousness, group consciousness, and God consciousness. These demonstrate through four types of atoms: first, the chemical atom and all atomic forms; secondly, the human atom; then, the planetary atom; and finally, the all-encompassing solar atom. Ensouling these atomic forms can be seen manifesting all sub-human types of life, from the life of the atom of substance to the informing life of the higher animals, then that life which we call human, that of man, the thinker; next, the Heavenly Man, and then the great Life of the solar system, Whom the Christian calls God, or the Logos.¹⁰

Addressing the Law of Attraction (or Love) in *A Treatise on Cosmic Fire*, Djwhal Khul states that all energy in the solar system is the energy of the logioic physical “*permanent atom*” and that the “solar sphere” containing “the seven spirillae of the logioic [physical] permanent atom” is “closely similar” to Babbitt’s atom (pp. 1180-82).

... all energy, demonstrating in the solar system, is after all the energy of the *logioic physical permanent atom*, having its *nucleus* on the atomic subplane of the cosmic physical. This physical permanent atom (as is the case with the corresponding atom of the incarnating jiva), has its place within the causal body of the Logos on His own plane; it is, therefore, impressed by the to-

talinity of the force of the egoic cosmic lotus, or the attractive quality of cosmic love. This force is transmitted to the solar system in two ways: Through the medium of the **Sun**, which is in an occult sense the *physical permanent atom*; it, therefore, attracts, and holds attracted, all within its sphere of influence, thus producing the logioic physical body: through the medium of *the planes which are the correspondences to the seven spirillae of the physical permanent atom* of a human being.”¹³

Earlier in the Treatise (p. 1059), Khul had stated that “... in the human atom the *spiral cyclic* activity is egoic and controlled from the egoic body.” This “spiral cyclic activity” is apparent in Babbitt’s atom.

Fractals in an Ethereal Space-Time Matrix

Therefore, the UPA observed by Babbitt, Besant, Leadbeater and Hodson would provide a useful dynamic model for sub-quark strings or fiery vortices of etheric energy. These vortices would generate—by condensation—the elementary particles of matter in the living matrix of space-time.

The physical body of a human being would thus be composed of physical atoms replicating the UPA archetype. At higher (i.e., astral, mental) energy levels, these UPA would correspond to the permanent atoms appropriated by the Monad in a causal body.

In a concentric model of the permanent atom, the atomic, buddhic, mental, astral and physical bodies and planes, as well as the causal body itself, would appear as shells around a central Monadic point of fiery energy, the Jewel of a 12-petalled egoic lotus. Each atomic subplane of a plane would contain a replica of this archetype of the atom, at the physical, the human and the solar atom scale, in a fractal pattern.

According to theoretical physicist Frank Wilczek, the ethereal nature of space, correcting “the human illusion that space is empty,” has reemerged in quantum field models.¹⁴ The need to account for the density of “empty” space (the cosmological constant), comprising

95% of matter (the “dark” or transparent matter of the universe), has also forced physicists to reconsider Einstein’s reluctance to accept “a space-filling material ether” co-substantial with the space-time matrix.

Evolution of the Human Atom

Group consciousness is a mark of human evolution. Human atoms self-organize in groups that could be mapped to 7 energy levels (“valence electron configurations”) defining the 18 families of chemical elements. Four basic types of orbital patterns of electron clouds, accounting for electron blocks of size 2 (s orbital), 6 (p orbital), 10 (d orbital) and 14 (f orbital), provide the electromagnetic mechanism for chemical affinity. The laws of chemical affinity rule the formation of groups of atoms or molecules.

The chemical transmutation of individual physical atoms, by the process of radioactive decay (alpha particles, beta particles, gamma rays), would correspond to stages in the Path of Initiation of the human atom. After the third initiation, the neutrons comprising the causal body of the Helium-like Soul would decay into primal Hydrogen-like atoms of protons and electrons.

Conclusion

The Greeks believed in four essential constituents of matter. Given that, according to esoteric postulates, the physical body (earth) is not a principle, water, fire and air would then correspond to the three fundamental operating principles in the universe: sattva (air), raja (fire) and tamas (water). A fifth constituent, the ether, would unify the theoretical model of matter in agreement with the most-recent findings of quantum physics.¹⁵

Four fundamental forces of nature have been discovered in this ethereal space-time matrix. Between the strong nuclear forces of the physical atom and the weak gravitational forces of the solar system, a vortex model of interacting spiritual, egoic and physical forces of the human atom is presented in this manuscript.

Although “all models are wrong; some models are useful.”¹⁶ The UPA observed by Babbitt,

Besant, Leadbeater and Hodson would provide a useful model of the occult constitution of the human being and the human evolutionary progress. As Bailey reminds us, “it does no harm to speculate if the effect is to give us a broader vision, a wider tolerance, and a greater and wiser optimism.”¹⁰

¹ Edwin Babbitt, *The Principles of Light and Color: the Healing Power of Color* (reprint; 1878; Secaucus, NJ, Citadel Press, 1878).

² Annie Besant, Charles W. Leadbeater, *Occult Chemistry*. Revised Edition edited by A.P. Sinnett (London, UK, Theosophical Publishing House, 1919). <http://www.gutenberg.org/ebooks/16058>. (accessed October 13, 2015).

³ Stephen M. Phillips, *Extrasensory Perception of Quarks* (Wheaton, IL: Theosophical Publishing House, 1980). http://www.smphillips.8m.com/pdfs/ESP_of_Quarks.pdf. (accessed October 13, 2015).

⁴ Stephen M. Phillips, “Extrasensory Perception of Subatomic Particles,” *Journal of Scientific Exploration*. Vol. 9, No. 4, pp. 489-525, 1995. <https://www.scientificexploration.org/journal/volume-9-number-4-1995>. (accessed October 13, 2015.)

⁵ Stephen M. Phillips, *Sacred Geometries and Their Scientific Meanings: The Interface between Science and the Transcendental*. <http://www.smphillips.8m.com/>. (accessed October 13, 2015)

⁶ Ibid.

⁷ Dobyns, YH. “Report of Referee on Extrasensory Perception of Subatomic Particles.” *Journal of Scientific Exploration*, Vol. 9, No. 4, pp. 527-538, 1995. <https://www.scientificexploration.org/journal/volume-9-number-4-1995>. (accessed October 14, 2015).

⁸ Stephen M. Phillips, “Reply to Dobyns,” *Journal of Scientific Exploration* Vol. 9, No. 4, pp. 539-548, 1995. <https://www.scientificexploration.org/journal/volume-9-number-4-1995>. (accessed October 15, 2015.)

⁹ J. Michael McBride, *Serious Scientific Lessons from Direct Observation of Atoms through Clairvoyance*, Department of Chemistry, Yale University, New Haven, CT. <https://webpace.yale.edu/chem125/125/history99/8Occult/OccultAtoms.html>. (accessed October 12, 2015).

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- ¹⁰ Stephen M. Phillips, *Re-discovery of the Higgs Boson?* <http://www.smphillips.8m.com/news.html>. (accessed October 15, 2015).
- ¹¹ Alice A. Bailey, *The Consciousness of the Atom* (reprint; 1993; New York, NY: Lucis Publishing Co, 1922. Orig. 1922 edition at: <https://archive.org/details/consciousnessofa00bail>. (accessed October 19, 2015).
- ¹² Alice A. Bailey, *Letters on Occult Meditation* (New York, NY: Lucis Publishing Co. <https://archive.org/details/lettersonoccultm00bail>. (accessed October 19, 2015).
- ¹³ Alice A. Bailey, *A Treatise on Cosmic Fire* (reprint; 1977; New York, NY: Lucis Publishing Co., 1925).
- ¹⁴ Frank Wilczek, "A Brief History of Ether," in *The Lightness of Being* (New York, NY: Basic Books, 2008).
- ¹⁵ "Wave Structure of Matter in Space: Outline of a New Paradigm." Adapted from Geoff Haselhurst's introduction to his *Wave Structure of Matter in The Dynamic Unity of Reality*. <http://www.ngsm.org/agni-yoga/wsm.htm>.
- ¹⁶ George E. P. Box, *Statistics for Experimenters* (ed. W. G. Hunter, W: Hoboken, NJ: John Wiley & Sons, 1978).