

can materialize *everything* It wishes (*omnipotence*).

All these characteristics of the Supreme Consciousness (infinite, unique, uncreated, eternal, omnipresent, omniscient and omnipotent) coincide with those traditionally ascribed to *God* by most religions.

It was shown in this work that the "virtual" *quanta* of the *gravitational interaction* must have spin 1 and not 2, and that they are "virtual" photons (*graviphotons*) with *zero mass* outside the *coherent* matter. Inside the coherent matter the graviphoton mass is *non-zero*. Therefore, the gravitational forces are also *gauge* forces, because they are yielded by the exchange of "virtual" *quanta* of spin 1, such as the electromagnetic forces and the weak and strong nuclear forces.

Thus, the gravitational forces are produced by the exchange of "virtual" photons. Consequently, **this is precisely the origin of the gravity.**

Newton's theory of gravity does not explain *why* objects attract one another; it simply models this observation. Also Einstein's theory does not explain the origin of gravity. Einstein's theory of gravity only describes gravity with more precision than Newton's theory does.

Besides, there is nothing in both theories explaining **the origin of the energy that produces the gravitational forces.** Earth's gravity attracts all objects on the surface of our planet. This has been going on for well over 4.5 billions years, yet no known energy source is being converted to support this tremendous ongoing energy expenditure. Also is the enormous continuous energy expended by Earth's gravitational field for maintaining the Moon in its orbit - millennium after millennium. In spite of the ongoing energy expended by Earth's gravitational field to hold objects down on surface and the Moon in orbit, why the energy of the field never diminishes in strength or drains its energy source? Is this energy expenditure balanced by

a conversion of energy from an unknown energy source?

The energy W necessary to support the effort expended by the gravitational forces F is well-known and given by

$$W = \int_{\infty}^r F dr = -G \frac{M_g m_g}{r}$$

According to the *principle of energy conservation*, this energy expenditure must be balanced by a conversion of energy from another energy type.

The Uncertainty Principle tells us that, due to the occurrence of exchange of *graviphotons* in a time interval $\Delta t < \hbar/\Delta E$ (where ΔE is the energy of the graviphoton), the energy variation ΔE cannot be detected in the system $M_g - m_g$. Since the total energy W is the sum of the energy of the n graviphotons, i.e., $W = \Delta E_1 + \Delta E_2 + \dots + \Delta E_n$, then the energy W cannot be detected as well. However, as we know it can be converted into another type of energy, for example, in rotational kinetic energy, as in the hydroelectric plants, or in the *Gravitational Motor*, as shown in this work.

It is known that a *quantum* of energy $\Delta E = hf$ which varies during a time interval $\Delta t = 1/f = \lambda/c < \hbar/\Delta E$ (wave period) cannot be experimentally detected. This is an *imaginary* photon or a "virtual" photon. Thus, the graviphotons are *imaginary* photons, i.e., the energies ΔE_i of the graviphotons are imaginaries energies and therefore the energy $W = \Delta E_1 + \Delta E_2 + \dots + \Delta E_n$ is also an *imaginary* energy. Consequently, it belongs to the *imaginary space-time*.

According to Eq. (131), imaginary energy is equal to *psychic energy*. Consequently, the *imaginary space-time* is, in fact, the *psychic space-time*, which contains the Supreme Consciousness. Since the Supreme Consciousness has infinite psychic mass, then the *psychic space-time* has *infinite psychic energy*. This is highly

relevant, because it confers to the *psychic space-time* the characteristic of *unlimited source of energy*.

This can be easily confirmed by the fact that, in spite of the enormous amount of energy expended by Earth's gravitational field to hold objects down on the surface of the planet and maintain the Moon in its orbit, the energy of Earth's gravitational field never diminishes in strength or drains its energy source.

If an experiment involves a large number of identical particles, all described by the same wave function Ψ , real density of mass ρ of these particles in x, y, z, t is proportional to the corresponding value Ψ^2 (Ψ^2 is known as *density of probability*). If Ψ is complex then $\Psi^2 = \Psi\Psi^*$. Thus, $\rho \propto \Psi^2 = \Psi\Psi^*$). Similarly, in the case of psychic particles, the *density of psychic mass*, ρ_ψ , in x, y, z , will be expressed by $\rho_\psi \propto \Psi_\psi^2 = \Psi_\psi\Psi_\psi^*$. It is known that Ψ_ψ^2 is always *real* and *positive* while $\rho_\psi = m_\psi/V$ is an *imaginary* quantity. Thus, as the *modulus* of an imaginary number is always real and positive, we can transform the proportion $\rho_\psi \propto \Psi_\psi^2$, in equality in the following form:

$$\Psi_\psi^2 = k|\rho_\psi| \quad (134)$$

Where k is a *proportionality constant* (real and positive) to be determined.

In Quantum Mechanics we have studied the *Superposition Principle*, which affirms that, if a particle (or system of particles) is in a *dynamic state* represented by a wave function Ψ_1 and may also be in another dynamic state described by Ψ_2 then, the general dynamic state of the particle may be described by Ψ , where Ψ is a linear combination (superposition) of Ψ_1 and Ψ_2 , i.e.,

$$\Psi = c_1\Psi_1 + c_2\Psi_2 \quad (135)$$

Complex constants c_1 e c_2 respectively

indicates the percentage of dynamic state, represented by Ψ_1 e Ψ_2 in the formation of the general dynamic state described by Ψ .

In the case of psychic particles (psychic bodies, consciousness, etc.), by analogy, if $\Psi_{\psi_1}, \Psi_{\psi_2}, \dots, \Psi_{\psi_n}$ refer to the different dynamic states the psychic particle assume, then its general dynamic state may be described by the wave function Ψ_ψ , given by:

$$\Psi_\psi = c_1\Psi_{\psi_1} + c_2\Psi_{\psi_2} + \dots + c_n\Psi_{\psi_n} \quad (136)$$

The state of superposition of wave functions is, therefore, common for both psychic and material particles. In the case of material particles, it can be verified, for instance, when an electron changes from one orbit to another. Before effecting the transition to another energy level, the electron carries out "virtual transitions" [42]. A kind of *relationship* with other electrons before performing the real transition. During this relationship period, its wave function remains "scattered" by a *wide region of the space* [43] thus superposing the wave functions of the other electrons. In this relationship the electrons *mutually* influence each other, with the possibility of *intertwining* their wave functions¹. When this happens, there occurs the so-called *Phase Relationship* according to quantum-mechanics concept.

In the electrons "virtual" transition mentioned before, the "listing" of all the possibilities of the electrons is described, as we know, by *Schrödinger's wave equation*. Otherwise, it is general for material particles. By analogy, in the case of psychic particles, we may say that the "listing" of all the

¹ Since the electrons are simultaneously waves and particles, their wave aspects will interfere with each other; besides superposition, there is also the possibility of occurrence of *intertwining* of their wave functions.