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How a Massive Planet can affect Human Consciousnesses when Passing Nearby the Sun

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Evidences of a giant planet orbiting our sun, in an orbit whose period would last approximately of 15 thousand years it seems to have been found. The orbit of the new planet is gigantic, never coming closer to the Sun than 30.5 billion kilometers. The discovery of planets whose orbits go beyond Pluto is not new. We know Sedna, Haumea and Makemake, and also Eris, which is more massive than Pluto. But all these planets have much less mass than the giant planet that was recently found orbiting our sun. Here we show how massive planets like these can affect the human consciousnesses, when they approach the Sun, and pass nearby the Earth.

Key words: Giant Planet orbiting our Sun, Human Consciouses, Earth's Psychic Atmosphere, Psychic Interaction.

Introduction

The existence of other planets, orbiting our Sun beyond Pluto, has been frequently proposed by several astronomers. Usually they result from the search for explanations for anomalies in the orbits of objects near the Kuiper Belt.

In 2014, Scott Sheppard and Chad Trujillo wrote an article [1] on small objects with strange discrepancies in their orbits, which can have been caused by several factors. However, the most likely cause would be a new unknown planet.

Now, scientists at Caltech (Konstantin Batygin and Mike Brown) seem to have found evidences of a giant planet orbiting our sun, in an orbit whose period would last approximately of 15 thousand years. The article published by Batygin and Brown in the *The Astronomical Journal* [2], describes this new planet as being *five to ten times more massive than the Earth*, and having a *diameter of two to four times the diameter of the Earth*. The orbit of the new planet is gigantic, never coming closer to the Sun than 30.5 billion kilometers.

The discovery of planets whose orbits go beyond Pluto is not new, because we know of the existence of Sedna, Haumea and Makemake (dwarf planets), and also Eris, which is more massive than Pluto. But all

these planets have much less mass than the giant planet that was recently predicted by Batygin and Brown.

In this article we show how massive planets like these can affect the human consciousnesses, when they approach the Sun, and pass close to Earth.

2. Theory

In a previous article we have shown that the *mass* of a material particle is composed by a *real part* and an *imaginary part*, both related to the *gravitational mass* of the particle [3], i.e.,

$$\underbrace{m_g}_{\text{real part}} + \underbrace{km_g}_{\text{imaginary part}} i \quad (1)$$

where k is coefficient related to the particle. The first term is therefore the *real gravitational mass* of the particle while the second is the *imaginary gravitational mass* of the particle.

It was shown that an *imaginary body* (containing imaginary mass only) is equivalent to a *consciousness*, in such way that *imaginary particles would be equivalents to psychic particles* and, therefore their masses (imaginary and psychic) would be equivalents. This lead to the conclusion that *material particles have a psychic mass associated to its real mass*. In a general way, it would be something similar to electric charges associated to material particles. Thus, similarly that the electric charges interact each other

through electrical interaction, and the gravitational masses by means of gravitational interaction, also *psychic masses interact each other* through a specific interaction, which we call *psychic interaction*.

We have shown that the psychic interaction between two psychics masses $m_{\psi 1}$ and $m_{\psi 2}$ generates a force, F_{ψ} , whose expression is *similar* to the expression of the force between two gravitational masses (Newton's law)[3], i.e.,

$$\vec{F}_{\psi} = -G \frac{m_{\psi 1} m_{\psi 2}}{r^2} \hat{\mu} \quad (2)$$

where

$$\begin{aligned} m_{\psi} &= m_{g(\text{imaginary})} = \\ &= \chi m_{i0(\text{imaginary})} = \chi (k m_{i0}) \quad i = k m_g i \end{aligned} \quad (3)$$

Also it was shown in the mentioned paper that the *superficial electric charge*, q , of a material particle (or *consciousness*) is related to its psychic mass, m_{ψ} , by means the following expression:

$$\begin{aligned} q &= \sqrt{4\pi\epsilon_0 G} \quad m_{g(\text{imaginary})} \quad i = \\ &= \left(\sqrt{4\pi\epsilon_0 G} \right) m_{\psi} \quad i \end{aligned} \quad (4)$$

From this equation we can conclude that the psychic mass of *material particles with electric charge* is given by*

$$m_{\psi} = -\frac{q}{\sqrt{4\pi\epsilon_0 G}} \quad i \quad (5)$$

* According to Eq. (3), we have:

$m_{\psi} = m_{g(\text{imaginary})} = \chi \quad m_{i0(\text{imaginary})} = \chi \quad (k m_{i0}) \quad i$
Then, Eq. (5) can be rewritten in the following form $m_{\psi} = \chi \quad (k m_{i0}) \quad i = -q / \sqrt{4\pi\epsilon_0 G} \quad i$ whence we obtain $k = -q / \chi \quad m_{i0} \sqrt{4\pi\epsilon_0 G}$. It was also shown in reference [3] that in the case of *electrons*, $k = -2 / \sqrt{3}$ and $\chi = \chi_e = -1.8 \times 10^{21}$ (then electrons have *positive* psychic masses); in the case of *protons* $\chi = \chi_p = -9.7 \times 10^{17}$ and $k = +2 / \sqrt{3}$ (then protons have *negative* psychic masses). These values are in agreement with the above expression of k .

If $q < 0$ then $q = -|q|$. Thus, Eq.(5) gives

$$m_{\psi} = +\frac{|q|}{\sqrt{4\pi\epsilon_0 G}} \quad i \quad (6)$$

If $q > 0$ then $q = +|q|$. Then, Eq. (5) yields

$$m_{\psi} = -\frac{|q|}{\sqrt{4\pi\epsilon_0 G}} \quad i \quad (7)$$

On the other hand, the psychic mass of *psychic particles* (containing psychic mass only) is given by

$$m_{\psi} = m \quad i \quad (8)$$

where m a real mass.

The electric charge of Earth's is $q_E \cong -500,000C$ [4], because the electrostatic potential near the surface of the Earth is about 100 V [5, 6]. Thus, according to Eq. (5) the *Earth's psychic mass* is given by

$$m_{\psi E} = +5.8 \times 10^{15} \quad i \quad (9)$$

Now consider the following situation: A massive planet X, with a *negative* electric charge[†], q_X , and *individual psychic mass*, $m_{\psi X} = +(|q_X| / \sqrt{4\pi\epsilon_0 G}) \quad i = +1.16 \times 10^{10} |q_X| \quad i$, passes near the Earth (individual psychic mass, $m_{\psi E} = +5.8 \times 10^{15} \quad i$). In the planet Earth exists human consciousnesses with *positive* psychic mass, $m_{\psi cE} = +m_{cE} \quad i$, and *negative* psychic mass, $m_{\psi cE} = -m_{cE} \quad i$, incorporated in human bodies[‡]. Therefore, the psychic force that the *individual psychic mass of the planet X*, $m_{\psi X}$, exerts on one

[†] *Superficial* electric charge.

[‡] It was shown in a previous paper [7] that the cultivation of good-quality thoughts is highly beneficial to a person because *increase* the psychic mass of its consciousness. On the contrary, the cultivation of bad-quality thoughts makes human consciousness *lose* psychic mass. Thus, the psychic masses of the human consciousnesses can be *positive* or *negative* (by the frequent loss of psychic mass).

human consciousnesses with *positive* psychic mass, is given by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi X} \& +cE)} &= -\vec{F}_{\psi(+cE \& m_{\psi X})} = -G \frac{m_{\psi X} m_{\psi cE}}{R^2} \hat{\mu} = \\ &= -G \frac{\left(+1.16 \times 10^{10} |q_X| i \right) (+m_{cE} i)}{R^2} \hat{\mu} = \\ &= +G \left(1.16 \times 10^{10} \right) \frac{|q_X| (m_{cE})}{R^2} \hat{\mu}\end{aligned}\quad (10)$$

where $\hat{\mu}$ is a versor oriented from the planet X to Earth.

The psychic force that the *individual psychic mass of the planet X*, $m_{\psi X}$, exerts on one human consciousnesses with *negative* psychic mass, is given by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi X} \& -cE)} &= \vec{F}_{\psi(-cE \& m_{\psi X})} = -G \frac{m_{\psi X} m_{\psi cE}}{R^2} \hat{\mu} = \\ &= -G \frac{\left(+1.16 \times 10^{10} |q_X| i \right) (-m_{cE} i)}{R^2} \hat{\mu} = \\ &= -G \left(1.16 \times 10^{10} \right) \frac{|q_X| (m_{cE})}{R^2} \hat{\mu}\end{aligned}\quad (11)$$

The psychic force that the *individual psychic mass of the planet X*, $m_{\psi X} = +1.16 \times 10^{10} |q_X| i$, exerts on the *individual psychic mass of Earth*, $m_{\psi E} = +5.8 \times 10^{15} i$, is expressed by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi X} \& m_{\psi E})} &= -\vec{F}_{\psi(m_{\psi E} \& m_{\psi X})} = -G \frac{m_{\psi X} m_{\psi E}}{R^2} \hat{\mu} = \\ &= -G \frac{\left(+1.16 \times 10^{10} |q_X| i \right) \left(+5.8 \times 10^{15} i \right)}{R^2} \hat{\mu} = \\ &= +G \left(6.7 \times 10^{25} \right) \frac{|q_X|}{R^2} \hat{\mu}\end{aligned}\quad (12)$$

A *positive* psychic mass $m_{\psi cE} = +m_{cE} i$ is maintained in the human body ($m_{\psi B} = +1.16 \times 10^{10} |q_B| i$) by means of the contrary psychic forces between, $m_{\psi cE}$, and $m_{\psi B}$, which is given by

$$\begin{aligned}\vec{F}_{\psi(+cE \& m_{\psi B})} &= -\vec{F}_{\psi(m_{\psi B} \& +cE)} = -G \frac{m_{\psi cE} m_{\psi B}}{r_B^2} = \\ &= -G \frac{\left(+m_{cE} i \right) \left(+1.16 \times 10^{10} |q_B| i \right)}{r_B^2} \hat{\mu}_B = \\ &= +G \left(1.16 \times 10^{10} \right) \frac{m_{cE} |q_B|}{r_B^2} \hat{\mu}_B\end{aligned}\quad (13)$$

where $\hat{\mu}_B$ is a versor oriented from the body to the human consciousness.

In the case of *negative* psychic mass $m_{\psi cE} = -m_{cE} i$ it is maintained in the human body ($m_{\psi B} = +1.16 \times 10^{10} |q_B| i$) by means of the contrary psychic forces between, $m_{\psi cE}$, and $m_{\psi B}$, which is given by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi B} \& -cE)} &= -\vec{F}_{\psi(-cE \& m_{\psi B})} = -G \frac{m_{\psi B} m_{\psi cE}}{r_B^2} = \\ &= -G \frac{\left(+1.16 \times 10^{10} |q_B| i \right) (-m_{cE} i)}{r_B^2} \hat{\mu}_B = \\ &= -G \left(1.16 \times 10^{10} \right) \frac{m_{cE} |q_B|}{r_B^2} \hat{\mu}_B\end{aligned}\quad (14)$$

The psychic forces between a *positive* psychic mass $m_{\psi cE} = +m_{cE} i$ and the individual psychic mass of Earth, $m_{\psi E} = +5.8 \times 10^{15} i$, are given by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi E} \& +cE)} &= -\vec{F}_{\psi(+cE \& m_{\psi E})} = -G \frac{m_{\psi E} m_{\psi cE}}{r_B^2} = \\ &= -G \frac{\left(+5.8 \times 10^{15} i \right) \left(+m_{cE} i \right)}{r_E^2} \hat{\mu} = \\ &= +G \left(5.8 \times 10^{15} \right) \frac{m_{cE}}{r_E^2} \hat{\mu}\end{aligned}\quad (15)$$

The psychic forces between a *negative* psychic mass $m_{\psi cE} = -m_{cE} i$ and the individual psychic mass of Earth, $m_{\psi E} = +5.8 \times 10^{15} i$, are given by

$$\begin{aligned}\vec{F}_{\psi(m_{\psi E} \& -cE)} &= -\vec{F}_{\psi(-cE \& m_{\psi E})} = -G \frac{m_{\psi E} m_{\psi cE}}{r_B^2} = \\ &= -G \frac{\left(+5.8 \times 10^{15} i \right) (-m_{cE} i)}{r_E^2} \hat{\mu} = \\ &= -G \left(5.8 \times 10^{15} \right) \frac{m_{cE}}{r_E^2} \hat{\mu}\end{aligned}\quad (16)$$

The resultants upon the human consciousnesses

with *positive* psychic mass R_{+cE} , and upon the human consciousnesses with *negative* psychic mass R_{-cE} , are respectively, given by (See Fig.1)

$$\begin{aligned}\vec{R}_{+cE} &= \vec{F}_{\psi(m_{\psi X} \& +cE)} + \vec{F}_{\psi(m_{\psi E} \& +cE)} = \\ &= +G(1.16 \times 10^{10}) \frac{|q_X| m_{cE}}{R^2} \hat{\mu} + \\ &\quad + G(5.8 \times 10^{15}) \frac{m_{cE}}{r_E^2} \hat{\mu} = \\ &= +G(5.8 \times 10^{15}) m_{cE} \left(\frac{|q_X|}{(5 \times 10^5) R^2} + \frac{1}{r_E^2} \right) \hat{\mu} \quad (17)\end{aligned}$$

$$\begin{aligned}\vec{R}_{-cE} &= \vec{F}_{\psi(m_{\psi X} \& -cE)} + \vec{F}_{\psi(m_{\psi E} \& -cE)} = \\ &= -G(1.16 \times 10^{10}) \frac{|q_X| m_{cE}}{R^2} \hat{\mu} - \\ &\quad - G(5.8 \times 10^{15}) \frac{m_{cE}}{r_E^2} \hat{\mu} = \\ &= -G(5.8 \times 10^{15}) m_{cE} \left(\frac{|q_X|}{(5 \times 10^5) R^2} + \frac{1}{r_E^2} \right) \hat{\mu} \quad (18)\end{aligned}$$

Note that, if

$$\begin{aligned}|q_X| &<< (8.6 \times 10^{-11} g R^2 / G) - (5 \times 10^5 R^2 / r_E^2) \cong \\ &\cong 1.2 \times 10^{28} C \quad (19)\end{aligned}$$

then $g_{cE} = \vec{R}_{+cE} / m_{+cE} \ll g$.

This shows that, under these conditions, the psychic accelerations are negligible when compared to Earth's gravity acceleration.

The psychic force that the *individual psychic mass of the planet X* exerts on the *individual psychic mass of Earth*, is expressed by $\vec{F}_{\psi(m_{\psi X} \& m_{\psi E})}$ (Eq. (12)). By comparing the intensity of this force with the intensity of the *gravitational* force between Earth and the Sun, ($-Gm_s m_E / r_s^2 \cong 3.4 \times 10^{22} N$), then we can easily see that $|\vec{F}_{\psi(m_{\psi X} \& m_{\psi E})}| \ll |-Gm_s m_E / r_s^2|$, because it is expected that $|q_X| << 5.07 \times 10^4 (R^2 / G) \cong 6.8 \times 10^{33} C$.

Therefore, we conclude that the Earth's trajectory around the Sun will not be significantly disturbed by the psychic interaction between the planet X and Earth.

On the other hand, note that if

$$|q_X| \gg \left(\frac{|q_B|}{r_B^2} - \frac{5 \times 10^5}{r_E^2} \right) R^2 \cong 10^{19} C \quad (20)$$

then $\vec{R}_{-cE} \gg \vec{F}_{\psi(m_{\psi B} \& -cE)}$, (Eqs. (18) and (14)).

When this occurs, the link between the human consciousnesses with *negative* psychic masses and the human bodies, in which they are incorporated into, will be broken[§]. After, the mentioned consciousnesses will be sucked to the planet X, by means of the action of the force \vec{R}_{-cE} . Similarly, the human consciousnesses with *negative* psychic masses, which are *not* incorporated into human bodies on Earth, also they will be sucked to the planet X (See Fig.1).

The removal of the consciousnesses with *negative* psychic masses means that all the evil will be removed from Earth because they are basically the cause of the evil on Earth. Under these new conditions, the consciousnesses with *positive* psychic masses, which will remain on Earth will live in peace, evolving with their good-quality thoughts. Stated thus, "*the good shall inherit the earth*".

Finally, note that, according to Eqs. (19) and (20), the planet X should have *negative* electric charge q_X in the range $10^9 C \ll |q_X| \ll 10^{28} C$, in order to produce the phenomena above mentioned.

This electric charge range is not exotic or unusual in the Universe, on the contrary, for example, it is known that the periastron rate of the double pulsar PSR J0737-3039A/B system allows inferring $|Q_{NS}| \cong 5 \times 10^{19} C$. According to the perinigricon precession of the main sequence S2 star in Sgr A*, the electric charge carried by the compact object hosted in the Galactic Center may be as large as $|Q_*| \cong 4 \times 10^{27} C$ [8].

Considering that $m_{\psi cE} = \pm m_{cE} i$ (see Eq.(8)), and that, according to Eq. (5) we have

$$m_{\psi cE} = -\frac{q_{\psi cE}}{\sqrt{4\pi\epsilon_0} G} i \quad (21)$$

[§] Obviously, this will cause the death of the person.

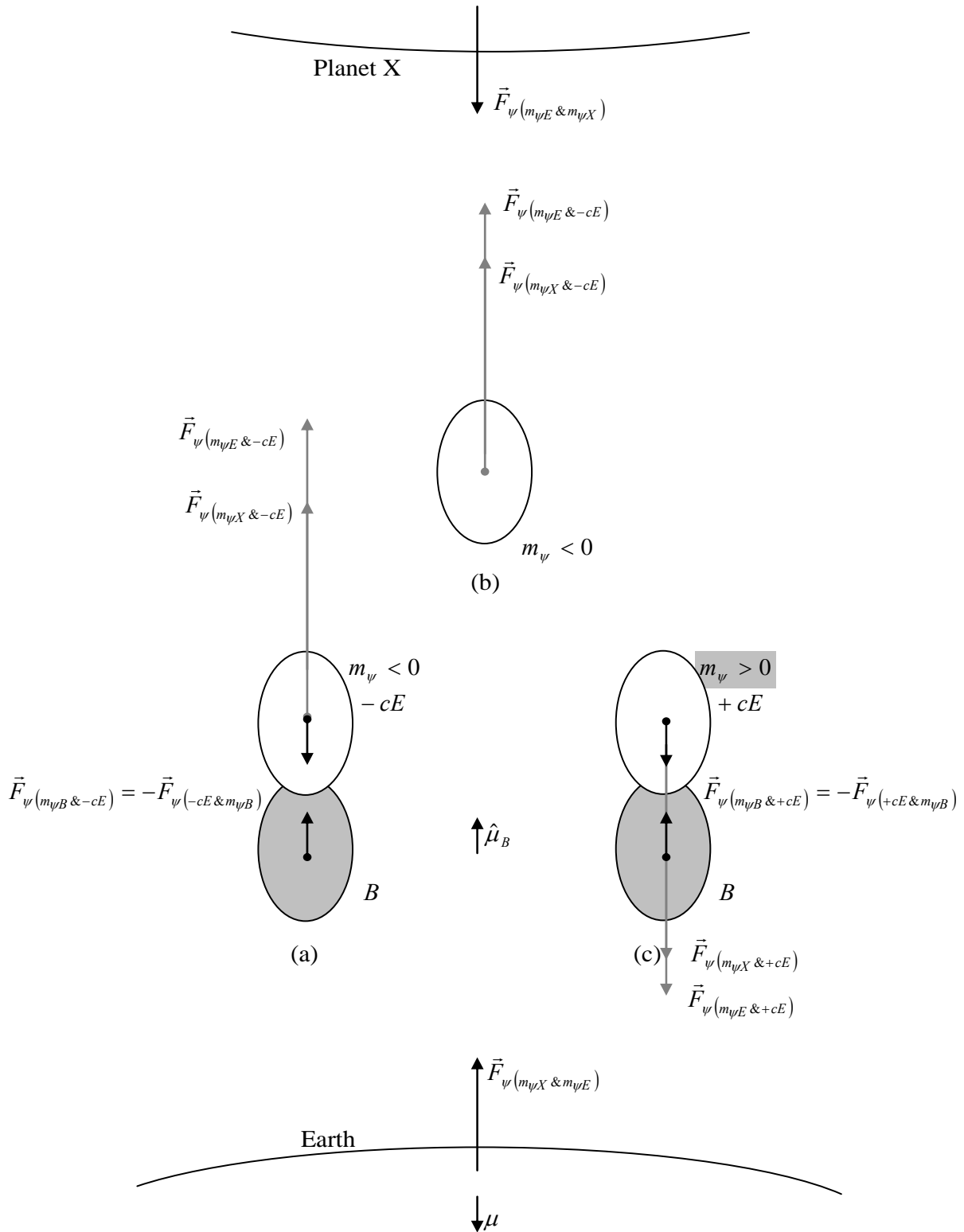


Fig. 1 – *Psychic Interaction among Planet X, Earth and Human Consciousnesses:*

- (a) Human consciousnesses with *negative* psychic mass, incorporated to human bodies.
- (b) Human consciousnesses with *negative* psychic mass, *not incorporated* to human bodies.
- (c) Human consciousnesses with *positive* psychic mass, incorporated to human bodies.

Then, we can write that

$$m_{cE} = \left| -\frac{q_{\psi cE}}{\sqrt{4\pi\epsilon_0 G}} \right| = \frac{|q_{\psi cE}|}{\sqrt{4\pi\epsilon_0 G}} \quad (22)$$

where $q_{\psi cE}$ is the electric charge related to $m_{\psi cE}$ (the psychic mass of the human consciousness).

Starting from Eqs. (17), (18) and (22), we can easily show that

$$R_{cE} = |\vec{R}_{-cE}| = |\vec{R}_{+cE}| = \frac{1}{4\pi\epsilon_0} \frac{|q_{\psi cE}| |q_X|}{R^2} \quad (23)$$

In practice, the *maximum psychic force*, F_e^{\max} , which is possible to exert on a consciousness, placing it very near ($r_{\min} \approx 1m$) to a powerful generator of Van Der Graaf ($q_{\max} = CV = 4\pi\epsilon_0 rV = 4\pi\epsilon_0 (1m)(10MV) \cong 10^{-3} C$), or very near to a plate of a big capacitor with large electric charge ($q_{\max} = CV = \epsilon_r \epsilon_0 (A/d)V = 100\epsilon_0 (10/10^{-3})(500) \cong 10^{-3} C$) is given by

$$|F_e^{\max}| = \frac{1}{4\pi\epsilon_0} \frac{|q_{\psi cE}| |q_{\max}|}{r_{\min}^2} \cong 10^7 |q_{\psi cE}| \quad (24)$$

Then, by dividing equations (23) and (24) member by member, we get

$$R_{cE} = \left(\frac{|q_X|}{|q_{\max}|} \right) \left(\frac{r_{\min}}{R} \right)^2 |F_e^{\max}| \cong 10^3 \left(\frac{|q_X|}{R^2} \right) |F_e^{\max}| \quad (25)$$

Substitution of $R \cong 3 \times 10^{13} m$ into Eq. (25) yields

$$R_{cE} = 10^{-24} |q_X| |F_e^{\max}| \quad (26)$$

The value of $|q_X|$ is correlated to the intensity of the *psychic attraction force* that links the human consciousness to the human body, which it is incorporated. In order to calculate the intensity of this force, we start from Eq. (4), which tells us that the superficial electric charge, q , of a *consciousness* is related to its psychic mass, m_ψ , by means of the following expression

$$q = \sqrt{4\pi\epsilon_0 G} m_\psi i \quad (27)$$

that can be rewritten as

$$m_\psi = -\frac{q}{\sqrt{4\pi\epsilon_0 G}} i \quad (28)$$

From this equation, we have derived the Eqs. (6) and (7). Equation (6) tells us that, if the electric charge associated to a psychic mass is *negative*, then the psychic mass is *positive*, and vice-versa.

Equation (7) tells us that, if the electric charge associated to a psychic mass is *positive*, then the psychic mass is *negative*, and vice-versa.

The *Human Consciousnesses* are obviously, connected to the *human bodies* (more exactly connected to their *Material Individual Consciousnesses***), which they are incorporated. This connection should be similar to an *electrical umbilical cord*, in order to transfer to the human bodies the commands sent by the Human Consciousnesses incorporated to the human bodies. Then, electric charges would be transferred from the Human Consciousnesses to the Material Individual Consciousnesses of the bodies, and vice-versa.

The transfer of *negative* electric charges from a Human Consciousness to a Material Individual Consciousnesses of a human body, would occur, for example, during the *increasing* of *negative* psychic mass of a consciousness, according to Eq. (7). Similarly, the transfer of *negative* electric charges from the Material Individual Consciousnesses of human bodies to the Human Consciousnesses, which they are incorporated, it would occur during the *decreasing* of *negative* psychic mass of the consciousnesses. Obviously that there would have an *electrostatic equilibrium* between the Human Consciousness and the Material Individual Consciousness of the human body, in such way that the electric charge in the human consciousness, $q_{\psi cE}$, and the electric charge transferred to the Material Individual Consciousness of the human body, $q_{\psi b}$, are symmetric and equals in modulus, i.e., $q_{\psi b} = -q_{\psi cE}$.

In this context, the psychic force that links a human body (its *Material Individual Consciousness*) to a *Human Consciousness*†† with a *negative* psychic mass, $m_{\psi cE} < 0$,

$$(m_{\psi cE} < 0 \Rightarrow q_{\psi cE} > 0 \Rightarrow q_{\psi cE} = +|q_{\psi cE}| \Rightarrow q_{\psi b} = -|q_{\psi cE}|),$$

** See about the consciousnesses of the materials in reference [9]. The *Material Individual Consciousnesses* are formed by the aggregation of psychic mass associated to the protons and the electrons of a body. The psychic masses of neutrons are *null*. The *protons* have *negative* psychic masses (*positive* electric charge) while the *electrons* have *positive* psychic mass (*negative* electric charge). Thus, the total electric charge associated to a Material Individual Consciousnesses is *null*.

†† The *Human Consciousness* is the consciousness *incorporated* to the human body, which leaves the human body after its death. The *Material Individual Consciousness* is the consciousness which results from the aggregation of psychic mass of matter of the body.

can be expressed by means of the following equation

$$F_{link} = \frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE} q_{\psi b}}{r^2} = \frac{1}{4\pi\epsilon_0} \frac{(+|q_{\psi cE}|)(-|q_{\psi cE}|)}{r^2} = -\frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE}^2}{r^2} \quad (29)$$

Similarly, the psychic force that links a human body (its Material Individual Consciousness) to a human consciousness with *positive* psychic mass, $m_{\psi cE} > 0$,

($m_{\psi cE} > 0 \Rightarrow q_{\psi cE} < 0 \Rightarrow q_{\psi cE} = -|q_{\psi cE}| \Rightarrow q_{\psi b} = +|q_{\psi cE}|$), is given by

$$F_{link} = \frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE} q_{\psi b}}{r^2} = \frac{1}{4\pi\epsilon_0} \frac{(-|q_{\psi cE}|)(+|q_{\psi cE}|)}{r^2} = -\frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE}^2}{r^2} \quad (30)$$

Note that in both cases the expression of the psychic force that links the Human Consciousness to the body is the same. In this equation, the variable r is the distance between the center of the human consciousness and the center of the Material Individual Consciousness of the human body (See Fig.2).

The value of r reaches its *minimum* value when the Human Consciousness is inside the human body. Based on the dimensions of the human bodies, we can conclude that $r_{min} \ll 1cm$. Under these conditions, the force, F_{link} , has its *maximum* value given by

$$F_{link}^{max} = -\frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE}^2}{r_{min}^2} \quad (31)$$

The necessary condition for a human consciousness, with *negative* psychic mass, be sucked by the planet X is that $|R_{-cE}| > |F_{link}^{max}|$ ($|R_{-cE}|$ is given by Eq. (23)). Thus, we can write that

$$\left| \frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE} |q_X|}{R^2} \right| > \left| -\frac{1}{4\pi\epsilon_0} \frac{q_{\psi cE}^2}{r_{min}^2} \right|$$

whence we obtain

$$|q_X| > \left(\frac{R}{r_{min}} \right)^2 |q_{\psi cE}| \quad (32)$$

Equation (21) tells us that $m_{\psi cE} = -(q_{\psi cE} / \sqrt{4\pi\epsilon_0 G}) i$, then we can write that

$$|m_{\psi cE}| = \sqrt{\left(\frac{-q_{\psi cE}}{\sqrt{4\pi\epsilon_0 G}} \right)^2} = \sqrt{\frac{|q_{\psi cE}|^2}{4\pi\epsilon_0 G}} = \frac{|q_{\psi cE}|}{\sqrt{4\pi\epsilon_0 G}} \quad (33)$$

or

$$|q_{\psi cE}| = \sqrt{4\pi\epsilon_0 G} |m_{\psi cE}| \quad (34)$$

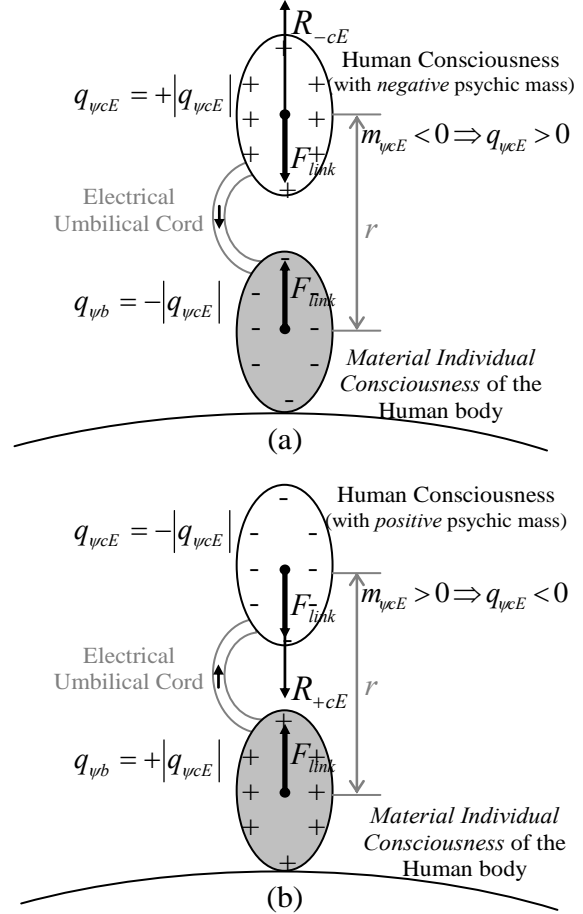


Fig.2 – The attraction force, F_{link} , that links the Human Consciousnesses to the human bodies.

According to Eq. (3), if $\chi \cong 1$, then we can write that

$$m_{\psi b} = km_{i0b} i \quad (35)$$

and

$$|m_{\psi b}| = \sqrt{(km_{i0b})^2} = \sqrt{|km_{i0b}|^2} = |km_{i0b}| \cong |m_{i0b}| \quad (36)$$

since $k \cong 1$ (See footnote of column 1, page 2).

In the particular case of Human Consciousnesses incorporated in human bodies *on Earth* (little-evolved consciousnesses, and therefore with *low psychic masses*), we can assume that

$$|q_{\psi cE}^{max}| \approx |m_{\psi b}^{max}| \quad (37)$$

By comparing Eqs. (34) (37) and (35), we get

$$\begin{aligned} |q_{\psi cE}^{\max}| &= \sqrt{4\pi\epsilon_0 G} |m_{\psi cE}^{\max}| \approx \sqrt{4\pi\epsilon_0 G} |m_{\psi b}^{\max}| = \\ &= \sqrt{4\pi\epsilon_0 G} |m_{i0b}^{\max}| \end{aligned} \quad (38)$$

assuming that $m_{i0b}^{\max} \cong 200\text{kg}$, then Eq. (38) gives

$$|q_{\psi cE}^{\max}| \approx 1 \times 10^{-8} C \quad (39)$$

By substituting this value into Eq.(32), and also $R = 3 \times 10^{13} m$; $r_{\min} \ll 1\text{cm}$, we obtain

$$|q_X| \gg 10^{23} C \quad (40)$$

Thus, if $|q_X| \cong 10^{25} C$, for example, Eq. (26) tells us that

$$R_{cE} \cong 10F_e^{\max} \quad (41)$$

This means that the intensity of the psychic force, R_{cE} , exerted by the planet X in the consciousnesses over the Earth, will be about 10 times higher than maximum psychic force, F_e^{\max} , which is possible to exert on a consciousness, placing it very near to a powerful generator of Van Der Graaf, or very near to a plate of a big capacitor with large electric charge.

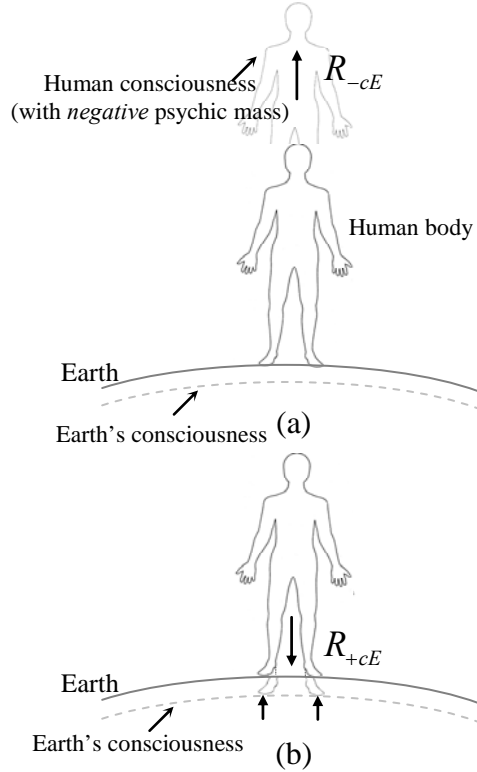


Fig.3 – Schematic Diagram of the Action of the forces R_{-cE} and R_{+cE} . (a) Suction of the consciousness with *negative* psychic mass. (b) Compression of the consciousness with *positive* psychic mass, on the Earth's consciousness.

Note that in spite of the intensity of the force R_{cE} , the maximum acceleration that it will produce upon the consciousnesses over the Earth *will be very smaller than* the local gravity acceleration, \bar{g} , (see Eq. (19)).

While the psychic force \bar{R}_{-cE} sucks from the Earth the consciousnesses with *negative* psychic mass, simultaneously the psychic force \bar{R}_{+cE} compresses against Earth the Human Consciousnesses with *positive* psychic mass (See Fig.3). However, these consciousnesses do not leave the bodies which are incorporated (See Fig.3 (b)) because they can not penetrate in the *Earth's consciousness* [9]).

Now, we will show that, when Human consciousnesses leave *abruptly* the human bodies they (the Human bodies) can become *imaginary* bodies (psychic bodies), and consequently *they disappears* from the *real* Universe.

When a human being dies its vital energy, correspondent to $E_{hb} \cong 2500\text{kcal} \cong 1.1 \times 10^7 \text{joules}$, is radiated from its body^{††}. Obviously, this amount of energy (equivalent to 3kg of TNT) should be radiated in a *spectrum* of *extra-low frequencies* (possibly the lower frequencies that the human body can emit). On the contrary, the emission of this energy would produce destruction in the local.

Delta waves are the slowest recorded brain waves in human beings. They were recently defined as having a frequency between 0.01 – 4 Hz [10]. Spontaneous slow fluctuations (0.1–1 Hz) and infra-slow fluctuations (0.01–0.1 Hz) are ubiquitous in brain dynamics. In electrophysiological recordings, these fluctuations have been observed both in single-unit and multiunit firing rates [11, 12, 13, 14, and 15]. Assuming that the *lower frequencies of delta radiation* correspond to the lower frequencies of radiation that a human body can emit, and that, based on the experimental observations, these frequencies should be of the order of 0.001Hz, then we can infer that the *spectrum*

^{††} The liberation of this *postmortem* energy is a phenomenon known for centuries.

of emission of the energy E_{hb} should have frequencies very close to 0.001Hz. It is easy to show that human bodies practically do not absorb radiations with this frequency. Consider for example, the following equation of the Electrodynamics [16], which gives the length δ necessary to totally absorb a radiation with frequency f , through a body with electrical conductivity σ , magnetic permeability μ , and electrical permittivity ε , i.e.,

$$\delta = 5 / 2\pi f \sqrt{\frac{1}{2} \varepsilon \mu \left(\sqrt{1 + (\sigma / 2\pi f \varepsilon)^2} - 1 \right)} \quad (42)$$

For human bodies we have that $\varepsilon \cong \varepsilon_0$, $\mu \cong \mu_0$. The electrical conductivity of the human bodies is very close to the electrical conductivity of the sea water (5S/m). By substitution of these values, and $f \cong 0.001\text{Hz}$, into equation above we obtain $\delta \cong 35,000\text{m}$, which shows that human bodies practically do not absorb energy of the radiations with $f \cong 0.001\text{Hz}$.

When the consciousness of a human being is removed abruptly, as previously mentioned (for example in the case of planet X), the energy E_{hb} should be radiated in a *very short time interval*. This situation is similar to the case, when by collision with another particle or atom the valence electron is raised to an excited state, and it remains there for a period (mean life) $\Delta t \cong 1.6 \times 10^{-8}\text{s}$ before jumping down to a lower level with emission of a photon. The emission occurs during a time interval of the order of Δt . In the case of the consciousness removed abruptly, the energy E_{hb} should then remain, after the consciousness be removed, for a similar period $\Delta t \cong 10^{-8}\text{s}$ before to be emitted, in a time interval of the order of Δt . Consequently, we can write that the power of the radiation emitted from the human body is $P_X = 1.1 \times 10^7 \text{ joules} / 10^{-8} \text{ s} \cong 1.1 \times 10^{15} \text{ watts}$, and the radiation density, is given by

$D_X = P_X / A_{\text{humanbody}} \cong 7 \times 10^{14} \text{ watts} / \text{m}^2$ ^{§§}. Under these conditions, the *gravitational mass of the human body* is strongly reduced, according to the following equation [3]:

$$m_{ghb} = \left\{ 1 - 2 \left[\sqrt{1 + \left(\frac{\mu_{hb} \sigma_{hb} D_X}{4\pi f \rho_{hb} c} \right)^2} - 1 \right] \right\} m_{i0hb} \cong -0.1 m_{i0hb} \quad (43)$$

where $\mu_{hb} \cong \mu_0 = 4\pi \times 10^{-7} \text{ H} / \text{m}$ is the magnetic permeability of the human body; $\sigma_{hb} \cong 5\text{S} / \text{m}$ is its electrical conductivity, and $\rho_{hb} \cong 1010 \text{ kg} / \text{m}^3$ is its density.

Note that $\chi_{hb} = m_{ghb} / m_{i0hb} \cong -0.1$ is inside the range $-0.156 < \chi < +0.156$, which is the critical range in which the particles become *imaginaries*, i.e., they make a transition to the *imaginary spacetime* [3]. Consequently, we can conclude that, in the above condition (Eq. (43)), *a human body becomes imaginary*, leaving the *real Universe*. On the other hand, due to its *negative* psychic mass $m_{\psi hb} \equiv m_{ghb} \cong -0.1 m_{i0hb}$, it will also be sucked to the planet X, similarly to the Human consciousnesses with *negative* psychic masses.

^{§§} Note that, if the energy E_g is radiated during 1 second, then $D_X \cong 10^7 \text{ watts} / \text{m}^2$, and the decreasing in the gravitational mass of the human body becomes negligible.

References

- [1] Trujillo, C. A., and Sheppard, S. S. (2014), *Nature*, 507, 471.
- [2] Batygin, K and Brown, M. (2016). *The Astronomical Journal*, 151:22 (12pp), February.
- [3] De Aquino, F. (2010) *Mathematical Foundations of the Relativistic Theory of Quantum Gravity*, Pacific Journal of Science and Technology, **11** (1), pp. 173-232.
- [4] Volland, H. (1995), *Handbook of Atmospheric Electrodynamics*, CRC Press, vol.I, Chapter11.
- [5] P. Siemens, P. (1999) *Capstones in Physics: Electromagnetism. LCL Problem 3-7* (The Orgeon State University, Corvallis).
- [6] Chavalier, G. (2007) *The Earth's Electrical Surface Potential*. A summary of present understanding (California Institute for Human Science, Encinitas).
- [7] De Aquino, F. (2012) *Beyond the Material Universe*, Journal for Interdisciplinary Research on Religion and Science, No. 10, January 2012, pp. 91-94.
- [8] Iorio, L. (2012) *Constraining the electric charges of some astronomical bodies in Reissner-Nordström spacetimes and generic r^{-2} -type power-law potentials from orbital motions*, <http://arxiv.org/abs/1112.3520v4>
- [9] De Aquino, F. (2010) *Physical Foundations of Quantum Psychology*, Bulletin of Pure and Applied Science (Delhi, India) Volume 29D. Number 2. December 2010 (Section D - Physics),pp.105-130.
- [10] Hiltunen, T., et al., (2014). Infra-slow EEG fluctuations are correlated with resting-state network dynamics in fMRI. *The Journal of Neuroscience*, 34(2): 356-362.
- [11] Werner G., and Mountcastle, V.B. (1963) *The variability of central neural activity in a sensory system, and its implications for the central reflection of sensory events*. *J Neurophysiol* 26:958–977, *pmid:14084169*.
- [12] Albrecht, D., and Gabriel, S.(1994) *Very slow oscillations of activity in geniculate neurones of urethane-anaesthetized rats*. *Neuroreport* 5:1909–1912, *doi:10.1097/00001756-199410000-00017*, *pmid:7841374*.
- [13] Ruskin, D.N., et al., (1999) *Multisecond oscillations in firing rate in the basal ganglia: robust modulation by dopamine receptor activation and anesthesia*. *J Neurophysiol* 81:2046–2055, *pmid:10322046*.
- [14] Ruskin D.N., et al., (2003) *Correlated multisecond oscillations in firing rate in the basal ganglia: modulation by dopamine and the subthalamic nucleus*. *Neuroscience* 117:427–438, *doi:10.1016/S0306-4522(02)00921-1*, *pmid:12614683*.
- [15] Allers KA. , et al., (2002) *Multisecond periodicities in basal ganglia firing rates correlate with theta bursts in transcortical and hippocampal EEG*. *J Neurophysiol* 87:1118–1122, *pmid:11826075*.
- [16] Quevedo, C. P. (1977) *Eletromagnetismo*, McGraw-Hill, p.270.