

Musical Coherence and Consciousness

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Abstract

Through a cross research, the author looks for the causes of the abrupt events that are changing the Earth, the solar system and the observable universe in a few years. These causes can be peculiar Low Energy Nuclear Transmutations that involve quarks, antiquarks and the only force, which links them all: the Electroweak one. Of its three messenger – W+, W-, Z, bosons - the neutral ones Z can affect the orientation of the nuclear spins, which compose everybody. Looking for the “missing link” between the nuclear spins and the angular momenta of the molecules composing a macroscopic body, the author proposes a new/ancient conception of matter: quarks are *spinning micro black holes* into which the W+, W-, Z bosons can penetrate and make the body alive, if this has appropriate receptors, such as the proteins. According to the author the three bosons can compose *substantial bodies*, environments and a “dark”, *causal, Crystalline Universe*. If it so, *biological life* is a temporary, musical coherence between the *substantial body* and the spinning dance of the quarks, composing the visible, *physical body* of one same being; “death” is the dissolving of their reciprocal bonds. This thesis can explain all the still mysterious, ultra-rapid, vital processes. The two universes – “dark” and “luminous” – also mirror themselves in every human body, in particular, in the “dark” energy that makes it alive. In order to verify her proposal, a new kind of science - or better co-science - available to use the Electroweak Force and one’s own “dark” brain too, is needed.

Key Words: universal life, consciousness, Low Energy Nuclear Transmutations, dark energy, dark brain, rotations, causal motions, weak messengers, Z bosons, life/death, micro black hole, universal language, cosmic intelligence, cybernetic reality.

Quantum Biosystems 2011; 3 (1): 1-11

What is the “primary reality”?

According to current beliefs, *space* is the primary reality, which separates us - humans, anchored on the Earth’s surface or the nearby space – from the rest of the universe, populated by dispersed, often spherical bodies that scientists can only observe through telescopes. We cannot reach them, as we have not enough *time*.

“*Only one Force, Love, makes infinite, intelligent worlds alive*” wrote Giordano Bruno (1548-1600) underlining the main role of an invisible *Message*, able to move all of us and other intelligent worlds too. Soon after Galileo Galilei (1564-1642) used the telescope for observing the sky and no intelligent world has ever appeared to the human eye.

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Received March 21, 2011. Revised May 23, 2011.

Contrary to what is usually believed, Bruno and Galilei represent two radically different ways of researching.

The former didn't use artificial instruments, sustained the heretical idea of an organic, *Infinite Universe*, stressing the human being's centrality; the latter initiated the scientific cult for optical telescopes, contributing to the orthodox belief in a finite, mechanical universe from which the human being is excluded.

In 18th century another crucial divergence arose between Newton's mechanics and Leibniz' Monadology (1714). This latter work sustains that the *primary reality* is the Message, carried by *monads*, quite similar to the *messengers* – *photons, gluons* and *bosons* – except for a main feature: intelligence.

No actual experimental proof can establish whose intelligence is, whether humans' or messengers' that penetrate them. The scientific minds believe that the former are intelligent and the latter are not. This belief allows physicists to adopt mathematics as the *universal language*. In the 20th century a further controversy between relativity theories and the more successful quantum physics has hidden the main discovery that *space-time* is created by the *electromagnetic, EM field*.

This actually is a *minor creator*, just one side of the Electroweak Force (the other side is the *weak nuclear force*).

Einstein's relativity theories prove that *spacetime* is not a *primary reality*. In order to answer the above question, "*what is the primary reality?*" we also have to consider three main facts:

- A. the "constant" EM light speed is only valid in "empty" space, that doesn't actually exist.
- B. The EM field shows different images of the same body; their respective forms and physical laws crucially depend on the observed wavelength.
- C. The *Copernican revolution* has just painted the optical image of the solar system, so neglecting many unsolved mysteries¹.

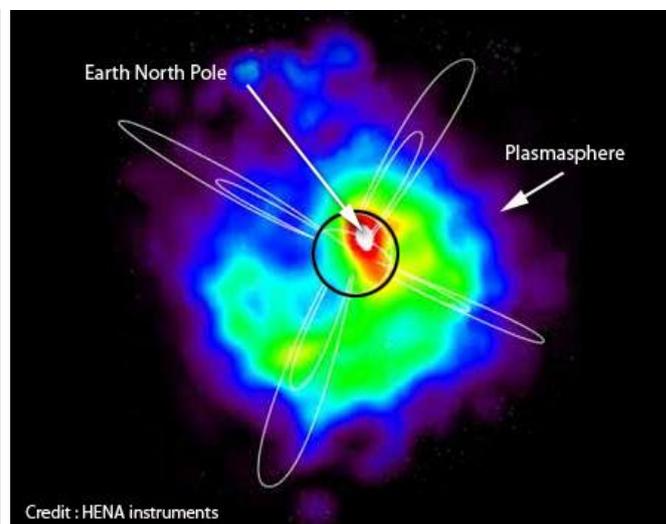
"If this science that will bring great benefits to humans, is not useful to man for comprehending himself, it will end up turning itself against humanity" was Giordano Bruno's prophecy.

Every body's different rotations

Since the second half of the 20th century, spatial probes have shown that the images, in non optical frequencies, are quite different from the optical ones.

The physical laws change too. For instance the Earth, seen in extreme ultraviolet, is much larger than its familiar image and doesn't obey to the Newton's gravitational law (fig. 1).

Fig. 1 – The plasmasphere is the same Earth, observed in the extreme ultraviolet. It has an embryo-like shape and the same Crystalline Core as the visible Earth. It is indifferent to gravity and does not rotate at the same speed as the Earth's crust, where we are. Curiously the very thin crust is "invisible" for the extreme ultraviolet probe; it is just drawn by the graphic as a black circle.



Known as “plasmisphere”, this “new Earth” is composed of various plasma populations, which don’t co-rotate with the Earth’s crust as previously believed; it has a differential rotation, taking from 25 to 27 hours to complete one revolution around its axis.

Various experiments in time isolation have shown that the human physiology follows natural cycles of 25-27 hours (Wever, 1979).

This would suggest that our day (24 hours) is not so natural and it is probably the main cause of our stressing day life.

The Earth’s plasmisphere is a highly complex structure, made of stable shapes that coexist within the magnetosphere, globally depending on the free motions of the Earth’s Crystalline Core. This Core has a radius of about 1200 km, is spinning slightly faster than the Earth’s biosphere, where we are (Kerr, 2005; Kosso, 2010). The axis of the Core is parallel to that of the Van Allen belts, and inclined of 11° respect to that of the biosphere (NASA).

Geophysicists have also individuated a further core – radius about 300 km – inside the Crystalline one (Ishii, 2002).

This *inner, inner core* has its own kind of rotation, totally different from all the other ones: it seems to rotate westward - not eastward as the above layers - and its axis seems to be inclined of 45° respect to that of the Crystalline Core².

The various rotations of the Earth’s shells involve various times; they are all left handed (anticlockwise) except for the *inner, inner core* that seems to rotate clockwise (Anderson, 2002). Differential rotation is also evident in many other bodies, included the human ones. Although we don’t seem to rotate, all our molecules do at various speeds.

Of all the molecules found in living organisms, proteins are the most important; they are the most abundant components within a cell and have a range of indispensable roles.

The more than 100,000 proteins in our bodies are produced from a set of only

20 building blocks, known as amino acids, which instantly pullulate from our cell’s nuclei (size about 1 nanometer)³.

Amino acids are all left-handed molecules, i.e. rotate polarized light anticlockwise like the Earth; they migrate into the ribosomes where they are folded in 3D elegant and functional shapes. This is a remarkably quick process: a protein of 300 amino acids is made in little more than a minute.

Why the protein folding is so rapidly and always runs towards a predetermined goal is a mystery we can solve.

Biologists’ unanimous conclusion is that Life is left-handed, as well as most natural bodies, crystals, solar systems, spiral galaxies, etc. For millennia physicians and philosophers had been looking for the “*spirit*” that makes every organism alive. What is Life? “*It is a universal, intelligent Force*” Giordano Bruno affirmed. Considering the universal preference for left, anticlockwise rotations, the answer is obvious, at present.

Only one force violates parity, i.e. prefers left (anticlockwise) rotations: it is the *weak nuclear force* that shares the same three messengers – the W⁺, W⁻, and Z bosons - as the *Electroweak* one. Physicists usually exclude it, as it hurts the observations of two main facts:

1. The weak nuclear force has terribly high frequencies (10²⁶ Hz).
2. The weak nuclear force is unpredictable.

The first one shows that we miss the *link* between the fastest *nuclear spins* and the *angular momenta* of a macroscopic body, hence we miss ultimately the *cause* of its different rotations.

Lets make an example: the huge, ultra rapid energies that have instantly shortened the duration of our day - Sumatra 27/12/2004, Chile 02/03/2010, Japan 11/03/2011 - came from the Earth’s interior and instantly changed the *angular momentum of the Earth’s crust*.

These inner energies have so violated *the law of conservation of the angular*

momentum – a main pillar of quantum and classical mechanics – and provoked permanent effects. They must be the effects of extremely rapid *causes*, which are not easily linked to the strain of the faults (Simons, 2011).

The second fact – unpredictability – involves the main question: whose intelligence is it? If the *weak force* is intelligent as I propose, its behaviour is free and independent from any law or mathematical formula that the human minds have established.

In my view, the *universal language* is *Music*, involving many rhythms, or times, and also what mathematics cannot include: humans' *emotions*.

The weak, neutral Z bosons can be *musical notes*, composing *musical pieces* and maybe the magnificent OPERA to which many sages have sung praises. This implies an *Author*. God? Not necessarily.

The *Author* can be the independent *Earth's Core*. Its crystalline structure violates parity, so showing that it interacts with the *weak nuclear force*. It can be the Source of the heavy Light, transmitted by the Z's to all the above shells, the Earth's crust included. This hypothesis contradicts the never tested belief that the Earth's core is composed of iron and nickel (Conforto, 2008). As the recent measurements of the geoneutrinos suggest, the Earth's core is the main seat of weak nuclear processes. (Borexino, 2010).

Dark energy, dark matter and LENT

Throughout the ages, poems, myths, legends and sacred texts have suggested the existence of super-natural⁴ worlds of which religions have taken possession and sciences have recently calculated the massive consistence: 96% of the entire, calculated mass (fig. 2).

Why cannot we observe them?

Because scientists just observe the EM interaction, as usual.

Great scientists like H. Poincaré, J. A. Wheeler and L. Fantappié have developed multi-dimensional theories and

challenged the "limit" - the *speed of light* - that Einstein himself has never assumed⁵.

These theories involve *different complex spaces*, each gifted with its *proper time*; they show the co-existence of *many times* and even imply the possibility of fulfilling *time travels*.

The Infinite and One Universe is the title of a main book by Giordano Bruno, stressing the oneness of infinite intelligent worlds, each gifted with its proper *space-time* and, I add, its proper *speed of light*.

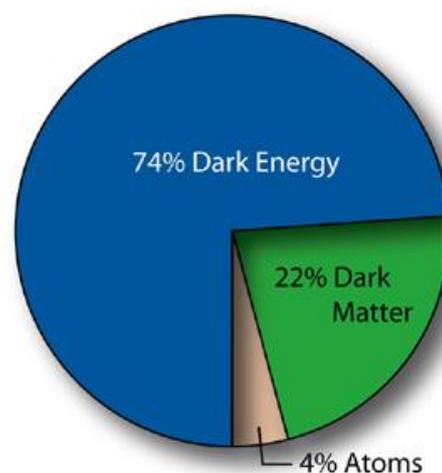


Fig. 2 – The "cosmic recipe" shows that we can only observe the so called "normal matter", composed of atoms, just 4% of the total mass. We also have to underlie that the 99,99 of the scanty 4% is confined into the minute atomic nuclei we can observe altering the observed.

We have no experimental means for verifying these proposals. Yet we could admit that we don't know *what time is* and how the *arrow of time* is related to the presumed "*universal constant*" that is the observed *speed of light*.

Orthodox theories are all based on the *faith* in one immutable, eternal "god": *linear time*.

Einstein has shown the *relativity* of time. It is usually believed that quantum physics has won the "dispute" with relativity.

Yet quantum physics is a probability theory and, as such, just considers *casual* events; it doesn't investigate the *Causes*,

able to change the nuclear spins, i.e. provoke their jumps and/or inversions, hence affect the rotations of the organic macromolecules.

Believing in *one linear time*, most people “forget” that the universal *causes*, or forces, are all beyond the observed *space-time* and nevertheless linked to it. The same EM field has *no space* and *no time*. The “dispute” can be overcome, assuming generalized spaces and considering all the universal forces, including the one that is usually forgotten: *heavy Light*, also known as “*weak neutral current*”, carried by the neutral bosons Z.

As the Standard Model of Physics shows, the “*weak neutral current*” interacts with different kinds of matter, among them, the so called *dark matter* that is unstable and “super-natural”, in the sense that it doesn’t obey the physical laws we call “natural”. Dark matter has:

- A. no weight, hence no interaction with gravitational forces;
- B. no visibility, no interaction with the EM light;
- C. no interactions with the strong nuclear force (gluons).

Can *dark matter* and *dark energy* compose, invisible, intelligent universes?

Yes they can; no physical law forbids it. These *invisible, supernatural universes* can also have *weak nuclear bonds* with the *visible, natural universe*, our instruments can only observe.

Physicists’ main problem is their same observation, mainly centred on the EM interaction. The G-zero experiment, a multiyear program designed to measure the *weak interaction* has offered a new picture of the atomic nuclei.

These are composed of protons and neutrons, in turn, built of three quarks that come in the two lightest “flavours”: *up* and *down* (*u, d*).

In addition to these resident quarks, the next lightest quark - the “strange” one - composes a fleeting *dark matter*, able to affect the structure of the protons permanently (Androic, 2010).

The *dark energy* (74%) has ultra rapid effects on normal matter too. It is actually accelerating the expansion of the entire observed universe - 13 billion years old - in only 10 years! This is what astrophysicists sustain, observing not a real expansion though, but rather an increasing *red-shift*, linked to the decreasing ratio:

$$v/c$$

(*v* = speed of the body; *c* = speed of light)

This increase could instead be due to a decrease of the *speed of EM light*, as a theory. Yet which *Causes* could change so quickly as to decelerate the *speed of light* in only 10 years? Peculiar Low Energy Nuclear Transmutations (LENT), which create new kinds of matter; these have actually been observed (Lassock, 2005).

“*Matter, composed of atoms, is just a solid state*” wrote Giordano Bruno.

What if the *normal nuclear matter* had fallen in a slow, *solid nuclear state*? Like the ice, such a *solid state* can contain a slightly faster *liquid state* and a still faster *air one*. The *liquid* can be composed of the two heavier flavours (*charm and strange*) and, the *air*, of the still heavier ones (*top and bottom*).

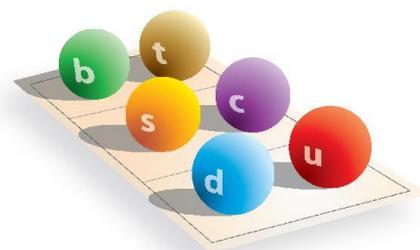


Fig. 3 – The six quarks of the Standard Model

These six flavours coexist and compose the three generations recognized by the Standard Model; these could correspond to the three Elements – *earth, water and air* – mentioned by astrology. Notice that all the three couple with the *W+*, *W-* and *Z* messengers, which compose

a fourth Element at very, very high frequencies and, in this sense, quite similar to the “*fire that doesn’t burn*” mentioned in the Gospels.

A *nuclear phase transition* to the *solid state* could have been the effect of a *symmetry break* that has provoked the famous Fall⁷. A “*nuclear evaporation*” could now occur, and so show that the visible, *natural universe* and the invisible, *super-natural* ones are all linked together. The “heat”, needed for such a *nuclear evaporation*, can be the *nuclear Light* – the *weak neutral current* - sourcing from Earth’s Crystalline core (Conforto, 2010).

What is life?

Life is the Universal Force physicists call “Electroweak”, in my view.

The *weak nuclear field* is its *light side*, in the sense that it shares its same messengers (W+, W-, Z), whereas the *electromagnetic field* is its *dark side*, in the sense that it is deceiving, i.e. showing various images of one same body (fig. 1,4).



Fig. 4. - The famous photo, Blue Marble, taken by the Apollo 17 in 1971. This is the image in optical frequencies, quite different from the that in extreme ultraviolet (fig. 1)

As already said the *normal nuclear matter* also contains *strange quarks* and even *strange antiquarks* that can all affect the *four-momentum transfers* of the nucleons (Androic, 2010).

Moreover the Z’s can affect the spins of the nucleons, hence the health of the human body, as the NMR shows. The nucleons are confined into a very small volume (10^{-45} cm³), but they are thousand times heavier than the electrons; their motions can provoke *phonons* (sound quanta), which easily propagate through the crystalline, cellular structure of an organism.

The Z’s can also provoke spin flips, able to generate a longitudinal EM current, different from the transverse EM ones, the kind that our technology is familiar with (Zhai, 2006).

The longitudinal EM waves transmit the ultra-rapid spin-flip between two states: *up* and *down* or *left* and *right*. These two, ever changing states compose a *binary language* that shows the *cybernetic nature* of any biological body and allows it to be the co-author of an *interactive story* involving different *times*. These correspond to energy bands – the *channels* of a cosmic TV – into which we are imbedded (Conforto, 1999, 2007).

Thus a main *paradigm shift* arises.

Biological life is not the “mysterious” property of an organism; it is a *binary language*, dependent on the *interactions* between the organism and the two, *weak* and *strong*, nuclear forces. Realizing the human meaning of these *interactions* we can also realize that they are not casual, but the effects of the organism’s choices.

What is consciousness?

The human bodies are gifted with a vertical posture, hence aligned with the River - the *weak neutral current* – if this comes from the Earth’s core, as the flux of geoneutrinos suggests.

Do our bodies interact with the Z’s? If we paid attention to our life processes (*production of amino acids, protein folding, hormonal secretion, fetal growth etc*) we should admit that they are all very fast and might therefore involve *weak neutral interactions*.

Yet we should also challenge our beliefs in the “god”, *linear time*, and the presumed stupidity of the forces (Conforto, 2010).

Humans’ consciousness is evident during our *waking* and *working* states, and not during the other two – *sleeping, dreaming* - ones that are unconscious and do not allow an upright posture. Eventual *weak interactions* have mechanical effects when the sun’s EM light is on, and just physiological ones when it is off (night).

Just as there is *dark energy* in the universe, there is *dark energy* in our own brain, *dark* in the sense that is unknown. Yet brain imaging results suggest that the brain works harder when it is daydreaming than when it performs a specific task. When our mind is at rest, dispersed brain areas are chattering away to one another and the energy consumed by this ever active messaging – known as the *brain's default mode* – is about 20 times that used by the brain when it responds to an outside stimulus. (Raichle, 2010).

In his fresco, the *Separation of Light from Darkness* (fig. 5) - on the ceiling of the Sistine Chapel in Rome - Michelangelo concealed anatomical images.

Suk and Tamargo (Suk, 2010) have indicated the unusual anatomy of God's neck, proposing that the painter wanted to emphasize the distinction between the two different types of cells of our nervous system: *glia* and *neurons*.

The former compose 90 per cent of our brain. Discovered in the mid-1800's and called *glia*, from the Greek glue (Auld, 2003), the common assumption was that the *glia* were nothing more than a passive support system for the *neurons*, presumed as the main players of the brain. Today we know that this is wrong.

Every brain can contain up to one trillion *glia*, 10 times as many as *neurons*.

The *glia* are multi-taskers, guiding the brain's development and sustaining it throughout our lives; they listen carefully to their neighbours, speak a chemical language without using *electricity*.

Yet the *glia* sense electrical activity in neural circuits and they can even control it. The shift in focus from *neurons* to *glia* upends the understanding of how the brain works. Neuroscientists know that their two-way communication does involve biochemistry and does not involve the *electric field*. (Field, 2006). To a physicist *no electricity* means *no translation* of the charges, resident in the organic molecules.

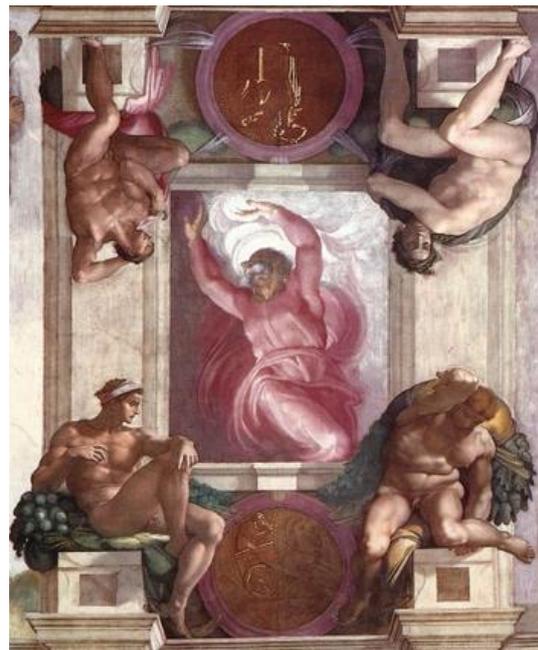


Fig. 5 – Rome Sistine Chapel. Michelangelo, the Separation of Light from Darkness.

If these just *rotate*, they don't create an *electric field*; they create a *magnetic field* that doesn't "work", as the *Lorentz's force law* shows. If rotation is just involved, no energy dissipation occurs, but a change of their *rhythms* - times - is always possible.

Interacting with the *Z's*, the *glia* can change their own angular momenta, made up of quantum units, $\frac{1}{2}\hbar$ (\hbar is the Planck' constant). *Consciousness* is a *spin alignment* between the angular momenta of the molecules and the flux of the *Z's*.⁸ This same *spin alignment* orchestrates the spinning, pirouetting dance through which *neurons* and *glia* communicate. The fastest *nuclear spins* are the *prime motors* of all the slower angular momenta, each having its *proper time*.

The "oil", needed for making the *prime motors* - the *quarks* - spin, is the massive *River of the Z's*, coming from the Earth's crystalline core.

The spinning dance also involves peculiar macromolecules, such as *proteins*, that come in *four distinct levels* of structure.

Are these *four levels* linked to the four *waking, working, sleeping* and *dreaming* states? This seems what also Michelangelo wanted to suggest.

The ignudo next to God's right hand is actually stretching as if awakening from sleep, while the diagonally-opposed one, below God's knee, is carrying a heavy bundle of oak garlands on his shoulders, representing a daytime activity. As already stated working just consumes a bit more energy than the *brain's default mode*, the much greater *dark energy* in the brain.

Thus the *biblical separation* might not concern an objective reality, but rather the subjects' *emotions*, linked to the *motions* of the fluids, which circulate into our bodies (*white and red blood, cerebral spinal fluid*). These *motions* all converge at the neck and can easily be blocked by the fear of "God's judgment". Have we to work by the sweat of the brow? Maybe we just have to use our creative *dark energy*, the *River of Life* – the massive flux of the Z's – and recognize its intelligence.

The *glia* can compose what Bruno – one of the greatest geniuses of human history - called the *Higher Mind*. This has logics, radically different from the *lower mind* made of *neurons*. Bruno's *Art of Memory* is the use of the *Higher Mind*, one's own *dark energy*, the intelligent and sophisticated *antenna* able to overcome *space* and *time*, comprehend that Life mainly speaks to us through *motions*, i.e. *emotions* (Conforto, 2002).

What is time?

"Once upon a time", time was just *astronomical*, computed through the revolutions of the sun, moon, planets, stars etc. Now we use the *atomic time*, linked to the *direct beta decay* of metallic radioisotopes, such as Cesium 137.

Scientists don't measure *time*.

They just calculate it, presuming that the *beta decay* has always had the same rate for billions of years. This assumption might be valid for metallic radioisotopes, but it is not for the organic one. For instance the rate of beta decay of Carbon

14 critically depends on the cosmic rays' intensity that has changed many times and is increasing at ever accelerated rates (Lockwood, 1995).

Moreover beta decays just involve the W-. Thus "*measuring*" time through a presumed constant beta decay means *dividing* what nature has united: the universal Message carried by all the three W-, W+, Z bosons.

Physicists agree about the unitary description of the two kinds of light – *weak* and *electromagnetic* - but they still miss the *link* between their respective effects, which appear as very different from each other. The *missing link* is the *copula* between these massive *bosons* and the *spinning dance* of the *fermions*. In order to find it a new or rather ancient conception of matter is needed.

More than four centuries ago Bruno affirmed: "*invisible cables link everybody to the Source of Life*". The *Source* can be the Earth's crystalline core, and the *cables* can be what relativistic theories call *space-time tunnels*, or *wormholes*, able to link various universes and their respective, proper times too (Lovgren, 2005).

My proposal is: *quarks are spinning micro, black holes* (fig. 6) and *antiquarks are spinning micro, white holes* (Conforto, 1999). Similar suggestions - elementary particles as *spinning, black and white holes* - have been advanced several times and always disregarded (Fantappiè, 2011). These overcome the wave-particle dualism of quantum physics and show instead the fermions' *trinity*, linked to the three possible speeds - *slower, equal* and *faster* - than light.

The *equal* ones generate two – centrifugal and centripetal - horizons that cover the *ring singularity*, the true hole, at the centre (fig. 6).

Penetrating the *cables* – the quarks of an organism - the moving Z's can give them new nuclear spins, hence accelerate their rotations or spinning dances. The cellular structure of the organism makes them propagate as sound quanta – *phonons* - all along its circuits.

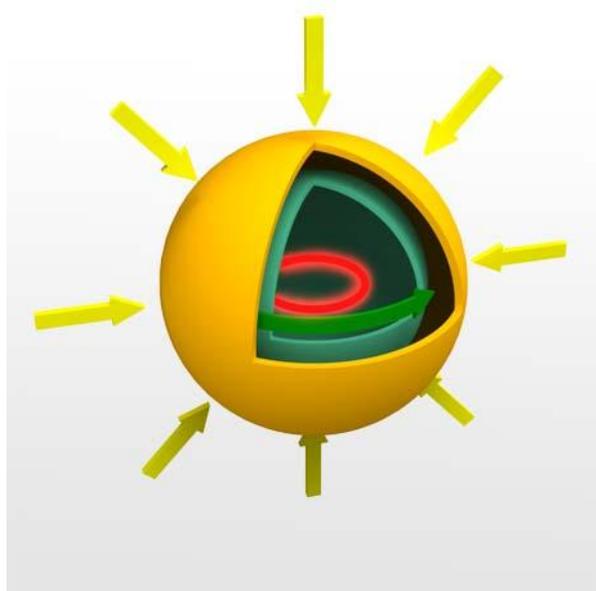


Fig. 6 – This picture represents a spinning black hole, which has two event horizons as the mathematician Kerr has shown. The two horizons are respectively linked to the centrifugal force, due to its rotation, and the centripetal one due to its attraction. These two, *centrifugal* and *centripetal*, forces can coincide with the *ying* and *yang* forces, or also with what we can feel as *eros* and *thanatos*. Various scientists have also shown that if the *black hole* increases its own spin, it can become a *naked singularity*. Courtesy © “IL PARTO DELLA VERGINE” by Giuliana Conforto, ed. Noesis, 2010

The *proteins* can behave as “speakers”, i.e. make the *phonons* “descend from the stars to the stalls”, produce a *sound spectrum*, involving all the *rotations - times* - from the fastest to the slowest ones.

Organisms’ cellular coherence is so linked to that of the bosons, which are self-organized like Musical pieces. The bosons move and conduct the spinning dance of the organic molecules, celebrated by Sufi dance. The fastest micro holes – the quarks - compose themselves in slower and larger ones. So we can realize what *linear time* is: it is the effect of the slow *rotations* we can only observe; it is a millenary trick that makes humans ignore their own cables, each one’s communion to the OPERA, composed by Crystalline Core at the Earth’s centre.

By the way, this was the reason for Bruno’s condemnation at the stake. The three W_{\pm} and Z can compose *eternal light bodies*, eternal environments and even an entire *eternal crystalline Causal Universe*.

Biological life can be a transient, *cold nuclear fusion* between the perennial, moving *light body* and the *physical body*, made up of the “solid”, nuclear state. An analogous “fusion” can occur between the *light body* and the other two *bodies* of one

same human being, respectively composed of the “liquid” and “air” nuclear states.

New kinds of *nuclear matter* have recently been observed (Lasscock, 2005).

These indicate that *Low Energy Nuclear Transmutations* (LENT) are occurring and increasing more and more quickly.

The heliosphere, the bubble that envelops the entire solar system - 4,5 billions years old - has changed in only six months. The Terrestrial Gamma Flashes (TFG’s) show the Earth’s huge resources⁹ and also weak interactions, involving anti matter, in the upper atmosphere (NASA).

Have we limited resources, as we have believed up to now?

No, a “dark energy” –Life - is penetrating any natural body and possibly *aligning* its nuclear spins. This might mean a natural self-healing.

Conclusions: humans’ immortality

Most cosmologies now agree that infinite universes do exist. According to the Standard Model, the Electroweak Force is the only one able to interact with 3 generations of matter and 3 ones of antimatter. Of these 6, we can only observe one generation. Yet if we interact with the

W+, W- and Z, we participate in the non observable universes too.

Being participants we cannot find a self-consistent set of axioms, according to Gödel's incompleteness theorems. As quantum physics has recognized too, an uncertainty principle involves us - the observers - and the whole rest. If we use our dark brain, we don't limit ourselves to the observable, electromagnetic effects.

This use implies self-observation, attention to the *universal language*, made up of *emotions*, our *blood motions*.

“Death is just a dissolving of bonds between the physical body, composed of atoms, and the substantial body, composed of true Light... The substantial light body is the eternal true identity” wrote Bruno. Our human eyes and/or scientific instruments cannot see the *substantial body*, if it is composed of the W^{\pm} 's and Z's, as I propose.

Yet we can feel it as our true, conscious identity. Is this science? No, it is co-science and is also an ancient art - the *Art of Memory* – of which Bruno was a great master and every one can develop.

Observing myself, I have become a trainer of this Art and so verified that, together, each one's *lower* and *higher* minds can become what they have been designed for: antennas of the *Infinite Organic Universe* (Conforto, 2004).

Whoever is sincerely available to use her/his *Higher Mind* can recognize the huge limits of the scientific method and its fruitful conspiracy with religions and/or spiritualities. They compose the *dominant paradigm* that divides what Nature has united, the *weak nuclear interactions*, each human being's loving relations with the *Infinite Organic Universe*.

“We have to use human names” said Bruno. My work has actually been a translation between the scientific names and the human ones. For instance *eros* and *thanatos*, *good* and *evil*: *eros* is the interaction with the expansive, centrifugal *“weak neutral current”*, whereas *thanatos* is that with the centripetal *strong, nuclear force*.

These two, nuclear forces coexist within any single proton. Therefore the “division” between *good* and *evil* is false.

The illusory *electromagnetic field* affects our human *psyche* that oscillates among anxieties, doubts and fears, not recognizing her true need: eternal Love, Eros. Thus the three - *eros*, *thanatos* and *psyche* - are the effects of the *interactions* between our visible human body, and the three universal forces, *weak*, *strong* and *electromagnetic*. The *nuclear interactions* involve 99,99% of any body's mass. If these change the physical laws change too.

Our *interactions* depend on ourselves, on our same emotions, will and choices.

Notes

1. For instance the regular distances among the planets' orbits, the divergence between the Sun's huge mass and little angular momentum.
2. The Earth's differential rotations are examined in the author's latest book: *Il Parto della Vergine* (2010), Edizioni Noesis. In Italian.
3. This size curiously corresponds to the extremely low frequencies (ELF) through which the plasmasphere clearly shows its own existence.
4. Super-natural in the sense that they worlds ignore the forces we call “natural”: gravitational, electromagnetic and strong nuclear forces
5. Faster than light speeds (FTLS) can exist according to Einstein's General Relativity; FTLS are denied, since they are associated with the violation of causality, the belief that causes must precede the effects.
6. It could have occurred at the end of the Pleistocene, 13,000 years ago. See Baby Sun.
7. The range of the weak force is 10^{-18} cm, that of the strong nuclear force (10^{-15} cm).
8. The *spins* and the *angular momenta* are always quantized, either in a free or a bond state; they are made up of quantum units ($1/2\hbar$).
9. See, for instance this video by Nasa: <http://www.youtube.com/watch?v=IXKt7UVjd-I>.

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