

## 6. God plays with a quantum die infinite interactions from the arche

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### **Abstract:**

*Albert Einstein once said, "God does not play dice."*

*In turn, Stephen Hawking said, "not only does God definitely play dice, but He sometimes confuses us by throwing them where they cannot be seen."*

*These quotations indicate fragmentation and dualism. On the one hand, God is an infinite almighty eternal gambler. He is pure energy. On the other hand, there are two classic and solid dice.*

*God does not think of classic dice. There is no separation between the Dice and God. It is a quantum die which has infinite interactions. The game is a Code.*

*A new name for Hugh Everett III's theory is proposed. This is Infinite Interacting Vibrations. Can we conceive the Divine as a source from which an infinity of vibrations emanate?*

*The universe is vibration. Our vibration is one of the infinite alternatives with a unique dimensional pattern. Each vibration is not the origin nor end of anything, but a fluctuation of the quantum Ether.*

### **Keywords:**

*Quantum Dice; Quantum Ether; Interactions; Infinite Vibrations*

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## Introduction

### The problem of classical measurement of quantum phenomena

There are concepts defended by science at all costs, some of which are: Universe had a Big Bang, and will suffer a Big Crunch or Great Collapse; mind does not affect matter; instantaneity is impossible; nothing goes faster than the speed of light; there's nothing real but matter and fields. Science abolished spirituality when it came to explaining the Cosmos and fostered the materialistic position, which caused the deep anthropological-moral crisis Humanity is in. Modern-day science seeks the tiniest particle but does not enquire about what's most essential: Life's biological-geometrical code.

We are at the dawn of a new model.

Quantum theory showed us that a level of reality displays a different behaviour to the one usually observed, like molecule behaviour, light-matter interaction or the nature of chemical reactions. Quantum theory built a formal model which introduces the idea that photon behaviour contradicts that of macroscopic objects.

That's why quantum theory is the greatest cognitive and cultural revolution in human history, which leads us to a neurological and ontological issue.

Quantum postulates sparked debate and many interpretations. Those are classical ways of explaining and describing quantum phenomena. Those interpretations opened a fissure between understandability and nature itself; that is why quantum theory must be reinvented.

*"Physicists have spent a century puzzling over the paradoxes of quantum theory. Now a few of them are trying to reinvent it".<sup>1</sup>*

Quantum theory is expressed in terms of operators, wavefunction, interactions, implexion<sup>2</sup>; thus dismantling the illusion of separability, locality and distance.

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<sup>1</sup>Ball, P. (2013). Quantum quest. *Nature*, Vol 501.

Disponible en : <http://www.nature.com/news/physics-quantum-quest-1.13711>

<sup>2</sup> Noción de Lévy-Leblond, J.-M. *Mots & maux de la physique quantique. Critique épistémologique et problèmes terminologiques*. (2000). En *Revue internationale de philosophie* n°2, 243-265. pp. 11.

*"On pourrait alors remplacer 'enchevêtrement' ('Verschränkung', 'entanglement'), par 'implexion', et, au lieu d'un 'état enchevêtré' parler d'un 'état implexé'".*

To show the implexion state, traditional physics talks about the entanglement and superposition paradox. Schrödinger elaborated a thought experiment to display the characteristics of this paradox. In his experiment, a cat interacts with a device inside a box.

As per the classical description: a) the cat is alive or dead before opening the box. This means observing the cat from outside the box and take classical measurements of a non-classical state, and thus the calculations done by the observer do not correspond to the interactions inside the box; b) the cat is considered a localized object in a specific place inside the box; but in quantum states, "to essentially be" overrules "to circumstantially be". To essentially be is indeed non-localized, and so classical observation cannot localize quantum states of essentially being. Taking this concept into account, De La Torre states:

*"If Hamlet, instead of being a XVIIth century Danish prince, had been a XXth century theoretical physicist, he would have expressed his anguish by saying: to essentially be and to not circumstantially be; that is the question in quantum physics".<sup>3</sup>*

In fact, the cat is not a cat but a quantum entity (a mesh of information) and the inside of the box serves as a symbol for a quantum state. How do we do to understand the interactive behaviour of no-place "objects"? If we managed to achieve that, we would be participating in the interdependency of Everything, which would lead us to develop new axioms with other mathematics that would be the basis of this new science.

This odd characteristic lays in front of us one of the greatest revolutions, the loss of a definite state for the infinite existence of simultaneously existing real alternatives.

In the present paper, emphasis is made upon one of the most beautiful theories offering an optimal explanation of the Cosmos: Everett III's theory, *Relative State Formulation Of Quantum Mechanics*, later expanded by Bryce DeWitt (1971) as *The Many-Worlds Interpretation Of Quantum Mechanics*. About those, Alberto De La Torre says in his work *Física cuántica para filo-sofos*:

*"Everett, in a proposal defying the most imaginative science-fiction, suggests that the universe is split into two unconnected universes: in one of them, spin stays "up", and "down" in the other. In both universes, there is a physicist checking the outcome of the experiment and thinks it is unique".<sup>4</sup>*

This proposal aims to reformulate the marrow of the Many Worlds and to show how what is different and separated is indeed constantly interacting. Interactions are guided by a biological-geometrical code that voids distance and isolation; at this point René Thom can be paraphrased, saying that decomposing continuous natural processes into isolated facts is an illusion from our spirit.

The proposed new denomination for Hugh Everett III's theory is *Infinite Interacting Vibrations*.

Our universe is a *vibration*. The *infinite vibrations* appear from the melting pot of interactions, and thus those *vibrations* carry the interactions' code. Each interaction causes a

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3 De la Torre, Alberto Clemente. (2012). *Física en perspectiva humanística*. Universidad Nacional de Mar del Plata. Eudem, pp. 258-259.

4 De La Torre, Alberto Clemente. (2011). *Física cuántica para filo-sofos*. FCE. 2nd. Edition. México pp. 127-128.

fluctuation in the Quantum Ether from which a *vibration* emanates; *vibrations* interact with other *vibrations*.

We are intrinsically connected to the *vibration* where we live, which in turn connects us to the Quantum Ether. Ether is the purest glue unifying elements and system, is the infinitely elastic and imponderable which permeates the Cosmos. Ether is God's thought made perfect geometrical substance.

Feedback is constant and continuous between the Human beat, the *vibration* beat and the Ether beat. We are a single beat.

The information carried by our blood, our nerve cells, our emotions and our thoughts is forged in the mesh of interactions.

## Development

### I

#### The mistake of considering quantum phenomena from mechanicism

New science is built with completely different ideas to those in the standard model, for instance:

Nothing is solid.

Everything is vibration.

Our universe is one of infinite *vibrations*.

There is no isolation, though our senses give us the illusion of separated objects.

Particles are quantum entities.

Quantum entities are swarms of information, vibrating and synchronised with the Quantum Ether geometry. Intelligence and conscience appear from those interactions and thus are non-local.

Matter, feelings, emotion and thought are vibration. A human being is intrinsically connected to everything that exists, its energy vibrating by the rhythm of interactions. Therefore, it can be said that interactions are the Arche, component from which is made everything that exists.

Physical objects are a swarm of vibrating quantum entities. Quantum theory discovered that what exists is not a sum of the fragmented matter, but vibration. We are vibration.

For centuries, scientists flamboyantly used their sophisticated technology to observe the Cosmos and did not bring up the question of whether Cosmos does observe us.

When the Cosmos observes us, it observes itself. To put it another way, the Cosmos makes us take part in its own intelligent vibration. Human and Cosmos are the footprint of the *Great Player* who is none other than the *First Thinker*, whose DNA is the code. That is why human DNA vibrates according to divine biological-geometrical patterns. Quantum Ether itself vibrates as a beat. The beat is from the divine DNA, seeding information everywhere.

Our starting idea is that from Bernard D'Espagnat, who says that “quantum theory is the paradigm of modern science”. This statement can be complemented with “modern science is Metaphysics”, since phenomena as interaction and implexed states cannot be deeply understood by applying laws from the mechanistic model.

This current proposal is understandable from the new paradigm of modern science, which is metaphysic. *Quantum Theory is Metaphysics*, being able to say what's unsayable and to show what's invisible.

*These perceptions gives us the ability to say that the things we observe might be tentatively interpreted as signs that provide us with some evidence maybe not completely misunderstood of a higher reality and, therefore, that the superior forms of spirituality are fully compatible with what seems to emerge from contemporary physics.*

- Bernard d'Espagnat

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## II

### From the Incommunication of the Many Worlds to the Infinite Interacting Vibrations

You are a function of what the whole universe is doing in the same way that a wave is a function of what the whole ocean is doing.

Alan Watts

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From the notion of implexion, there came Hugh Everett III's Thesis (1957), "*Relative state' formulation of quantum mechanics*", later expanded by Bryce DeWitt (1971) as *The Many-Worlds Interpretation of Quantum Mechanics*. This states that quantum state completely describes the alternatives of reality. Every possible result coexists, there is a superposition.

Superposition of worlds is real, but there is a different world for each measurement and a copy of the observer for each world. Each copy of the observer experiments different results, and each copy of the universe continues its evolution independently. Measuring does not cause any collapse. Every new event causes a split, and the number of alternative universes approaches infinite.

Physicists like Roger Penrose, Stephen Hawking and Murray Gell-Mann consider the theory as essentially right, but the name Many Worlds as inadequate and prefer the designation *Many Histories*.



Parallel universes do exist; this is put so categorically by Dr David Deutsch who, in his paper, *The Structure of the Multiverse*<sup>5</sup> proved mathematically that the universe as an infinite tree is logically consistent and real. This reformulation solves the implexed states paradox of Schrödinger's experiment. The paradox appears when applying our laws to a single world without noticing that there are different scales in the universe. This reassessment avoids collapse since it considers that there is no experimental evidence for it, and besides states that there is no action from a distance. To this point, Lev Vaidman states that:

*"The MWI resolves most, if not all, paradoxes of quantum mechanics (e.g., Schrödinger cat). A physical paradox is a phenomenon contradicting our intuition. The laws of physics govern the Universe incorporating all the worlds and this is why, when we limit ourselves to a single world, we may run into a paradox. An example is getting information about a region from where no particle ever came using the interaction-free measurement of Elitzur and Vaidman 1993. Indeed, on the scale of the Universe there is no paradox: in other worlds particles were in that region".*<sup>6</sup>

In turn, Howard Wiseman and Michael Hall, from the Centre for Quantum Dynamics at Griffith (Australia) and Dirk-Andre Deckert, from University of California Davis, in their paper *Quantum Phenomena Modeled by Interactions between Many Classical Worlds*<sup>7</sup>, state that the *Many Worlds* exist and they interact and influence one another. That is, the *Many Alternative Universes* do not evolve independently but interacting between them. Taking these recent investigations into account, a new denomination is proposed for Hugh Everett III's theory: *Infinite Interacting Vibrations*.

This way appears a new profile of quantum effects; the classical Cartesian principle "I think therefore I am" is transformed into "I interact, I am".

So then, what is our universe? It's a really peculiar *vibration*. We do not live in a universe nor in multiverses. We live in an amorphous *vibration* without a centre, which means that an event is neither near nor far from another, neither it does precede another. Each interaction causes a fluctuation in the Ether, from which a *vibration* emanates.

*Infinite vibrations* are emanated, and those interact between them. Our *vibration* is one of the infinite alternatives. *Vibrations* are a mesh of information with infinite interaction points between them, and at each point, there happens an implexion of states; it's there where worlds interact. Our *vibration* is not the beginning nor the end of anything, but a fluctuation of the Ether. Each *vibration* contains the information from the Ether. The components of each *vibration* interacted before the fluctuation. So, once it has happened, said components are still connected.

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5 Deutsch, D. (2001). *The Structure of the Multiverse*. Centre for Quantum Computation. The Clarendon Laboratory University of Oxford. OX1 3PU, UK.

Disponible en: <http://xxx.lanl.gov/ftp/quant-ph/papers/0104/0104033.pdf>

6 Vaidman, L. (2014). Many-Worlds Interpretation of Quantum Mechanics. *Stanford Encyclopedia of Philosophy*, California, EEUU.

7 Wiseman, H., Hall, M., & Deckert, D.-A. (2014). Quantum Phenomena Modeled by Interactions between Many Classical Worlds. *Physical Review X*. Vol 4, 041013.

Available at: <https://journals.aps.org/prx/abstract/10.1103/PhysRevX.4.041013>

This is the reason why human spirit can go beyond the visible and tangible matter, since it has molecular memories for having been part of the Ether before the fluctuation. In each cell we carry the biological-geometrical seal of the Ether.

Quantum Ether is, like Higgs Field, a continuum existing ubiquitously; the *vibrations* keep interacting with the Ether, and thus some quantum entities acquire mass while others don't, according to the dimensional pattern of the *vibration*.

Even though there are *infinite vibrations*, each one has its dimensional pattern with a complex network of forces and laws that weave the coming of Life. According to the dimensional pattern of a *vibration*, its destiny will be different to that of another *vibration*.

Quantum entities pass from one *vibration* to another through the infinite points of interaction, like by a tunnel effect, making worlds interact and leaving a print in both *vibrations*. The beat of both of them is connected in that implexion point.

The present proposal is understandable from the new metaphysic paradigm. Today's physics is tomorrow's metaphysics.

*"...Breaking the circle means finding what cannot be known about oneself by oneself. It's finding a founding principle of science which science cannot provide. Science cannot but make it understandable. So maybe the time comes when metaphysics could start. (...) Overall, it's about trying to know, to reach what science carries inside and cannot tell."*<sup>8</sup>

## Conclusion

### GOD PLAYS WITH QUANTUM DICE

Albert Einstein said, *"God does not play dice"*.

Stephen Hawking said, *"not only does God definitely play dice, but (...) throwing them where they cannot be seen."*

An isolated game does not correlate with the notions of implexion and interaction.

The narrative of both scientists displays dualism, fragmentation and separation; on the one hand, there is God and on the other the dice. Scientists refer to classical dice, but *God does not think of classical dice in His game. God plays with a Quantum Die*. The game is a code with biological-geometrical frequencies that reorganise the infinite interactions of the Die. God and the Die are not apart.

The Ether and the Die hold the code of God. The code of God is His own DNA. The interactions of the Die carry the primordial biological-geometrical seal that gives rise to the dance of life, and so interactions are the Arche.

The Quantum Die is a spring with divine information, primordial soup of Arche.

The Ether and the Die are animated by the same life spark, is the same energy flowing; the same primordial energy vibrates in the Ether, the Die and the Human.

We are a manifestation of God's thinking.

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<sup>8</sup> Omnès, R. (2000). *Filosofía de la Ciencia Contemporánea*. Barcelona: Idea Books, pp. 266-267.

Everything that existed, exists and will exist is forged in the interactions of the Die, and therefore the *vibrations* contain the *Code of the Die*. Every element of our *vibration* has information from the *Great Player, who is none other than the First Thinker. God, more than the Great Architect, is the First Philosopher.*

*The code of the First Thinker is his own DNA, that is, when God plays He makes His DNA available to interactions and vibrations. That is why God is omnipresent.*

Each thought from God produces an interaction with the Die, and so each dimensional pattern is a unique, divine thought. God plays with His DNA and the Cosmos blooms.

Our *vibration* and everything that develops in it is imbued with information from the *First Thinker.*

Can we conceive Divinity as a source from which *infinite vibrations* emanate? Yes!

One of the attributes of our *vibration* is its characteristic weaving. It's not that bodies spin and move (planets, suns, galaxies), this movement is an illusion. It's the dimensional pattern of the weaving which vibrates, distributing matter and energy. The Weaving is the essential ingredient that connects intimately all events because the information that quantum entities have and the information from the weaving is the same. Information has no place, it is everywhere. This way, the illusion of far distance becomes a continuous present.

Another of the attributes of our *vibration* is that there is no fundamental force nor fundamental level but a *code that reorganises the infinite interactions.* Interactions come from the Die, in which every component of every *vibration* interacted before the fluctuation, so said components never stopped being connected. As Aristotle states when defining the term *continuity*, that's as an integral unity, meaning that touching things become one and the same thing (Ion Soteropoulos).

Another of the attributes of our *vibration* is the characteristic structure of human DNA. This has a vibrating behaviour and evolves according to the biological-geometrical code of the *vibration* containing it; cells and nerve cells interact between them to form organs and develop thoughts and conscience. That is, everything living and evolving inside the *vibration* has the same code from the *vibration.* The code is the primordial basis for existence, it's a unifying beat and pulse, the fibre joining elements in one. Therefore our conscience is non-local, infinite and eternal because is connected to our *vibration* and the Cosmos.

We are conscience of the Cosmos.

A change in paradigm is coming. A change in the concept of mankind and life, the way of building knowledge and the way of thinking. So, it's more of a metamorphosis than a change.

These ideas modify the transcendent positioning of Mankind in the Cosmos, we're intrinsically connected. We are one.

XXIst century human must inspire solidarity and collaboration to vibrate in harmony with the *First Thinker* and so understand the huge human transcendence in God's work. We're soaked with divine thought. Even though God, in His quantum infinity, is absolutely free, deep in our existence we have this infinite nature; we must reach it, conquer it and deserve it.

The time has come to remember that the Divine plan and the part of the Divine plan are one. The code of life mirrors the code of the Cosmos. It's the same code. Once we remember this, we put ourselves in tune with everything and harmony arises in the details. The *First Thinker* shows us



order, harmony, beauty, elegance and simplicity in the Cosmos, the Cosmos mirrors His thoughts. His thought is the energy that makes human hearts vibrate and beat.

### Authors Note:

This article was previously published in Spanish by EIKASIA. Bimonthly Philosophy Magazine - ISSN 1885-5679. Oviedo. Spain. July 2016.

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### Cite this article:

God plays with a quantum die infinite interactions from the arche

### Citation Format: APA

Yaccuzzi Polisen, V. (2017). God plays with a quantum die infinite interactions from the arche. *S O C R A T E S*, 4(4), 65-73. Retrieved from <http://socratesjournal.com/index.php/socrates/article/view/255>

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