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*Article*

# Schrödinger's Cat Paradox Is an Illusion, We Are All Quantum Illusions When Seen from the Universal Quantum Referential

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**Abstract:** At the beginning of our observations, humanity believed that the Earth was the center of the universe and that the sun was spinning around the Earth. Claude Ptolémée (100-168) made a mistake by modelling the movements in the geocentric referential, the model of the sun and planet movements was an illusion and all Humanity was wrong. Nicolas Copernic (1473-1543) showed the illusion and simplified the system by moving from the geocentric referential to the heliocentric referential. In the present paper, I would like to discuss about the possibility of making mistakes with quantum theory because we are all in the wrong classical referential. In my interpretation, the decoherence problem and wave function collapse do not exist at all, because we are the illusion, we are living in a quantum illusion, in a mirage. It is impossible to observe the quantum world as it is, in our classical referential, and we see the quantum world with a false vision of quantum reality because we are not yet in the universal quantum referential whose I postulate the existence. As we are quantum illusions when seen from this universal quantum referential, Schrödinger's cat paradox is a non-sense as life and death are illusions. We must be very humble with quantum theory and we should not put ourselves in the center of the quantum world again particularly with our lives and deaths. We will thus be collectively able to reach the universal quantum referential by changing our vision of life and quantum world. This will be our Big Bang.

**Keywords:** Hugh Everett; universal wave function; quantum theory; many worlds interpretation; universe; randomness; Schrödinger's cat paradox; illusion; universal quantum referential; Big Bang

## 1. Introduction

Since the Schrödinger's cat experiment [1] proposed by Erwin Schrödinger in 1935, many different interpretations of this paradox have been elaborated and the interpretations are still open. A cat is placed in a box with a Geiger counter able to break a flask of poison if it detects the radioactivity of a small atom. As the radioactive atom is in superposition state of being integrated and disintegrated the cat should be in superposition states of being alive and dead. Schrödinger wanted to show that quantum effects at the atomic scale are unable to affect the macroscopic scale. The interpretation was in this case that quantum theory describes only the atomic scale and is not suitable to understand the macroscopic scale because of its limited application. Quantum theory associates wave functions with particles [2]. At the moment quantum theory faces with wave function collapse during a quantum measurement of a quantum system. Decoherence theory allows to explain that with an isolated system, the wave function would never collapse, but as quantum systems are never isolated particularly for important quantum systems, entanglement interactions with the environment lead to the collapse of the wave function and to the conversion of the system to a classical state [3]. Therefore decoherence theory explains well Schrödinger's cat paradox [4].

In 1957, Hugh Everett postulated the existence of a universal wave function which does not collapse. But to find the prediction of quantum theory, he had to postulate that a deterministic equation such as Schrödinger equation describes the quantum world. In the absence of the wave function collapse, The universe is composed of the superposition of many separate worlds.

Schrödinger cat's paradox is explained by ramifications of superposed separate worlds where the cat is alive in one world, the cat is dead in another world [5].

A last very recent interpretation concerns quantum complementarity theory. The conclusion of this interpretation is that Schrödinger's cat has an undefined value of whether it is alive or dead [6].

I would like to discuss about the possibility of making mistakes with quantum theory, because we put ourselves in the center of the quantum world one more time particularly with our Schrödinger's cat.

## 2. Discussion

I would like to question ourselves with the possibility of being quantum illusions. Life could be a quantum illusion. We see life in a classical way in a classical referential which could lead to quantum mistakes with the observation of the quantum world from a wrong referential. Do we make mistakes with quantum theory as Ptolémée did with the observation of the universe from the geocentric referential? The answer is yes!

If Schrödinger's cat is an illusion, a mirage, if we are quantum illusions, our observations of the quantum worlds are false. Therefore, all that we have observed with the quantum world is seen with a deformation, an uncomplete and part vision of the quantum reality. I mean all the well-known quantum effects taken as granted must be seen with a different vision, such as quantum confinement, quantum dots, Pauli exclusion principle, light interferences, light polarization, periodic classification of elements and molecules, Bose-Einstein condensates, photo-electric effect, black body radiation, tunnelling effect, quantum computers... Quantum world has to face with decoherence and collapse of the wave function. This leads to the observation of the quantum world as a classical state. These effects are mirage if we consider that we are the illusions, that we are mistaken on ourselves, that the classical state is an illusion and that we are living in the quantum world. We are living in the quantum world and we do not see it because we are not in the right referential. Hugh Everett during his PhD in 1957 has a genius intuition: he postulated the universal wave function which does not collapse. He described the right way of going towards quantum theory. I postulate that this wave function is associated with a universal quantum referential and we should see quantum world from this referential. But to understand the behavior of the wave function, Hugh Everett postulated that a deterministic equation such as Schrödinger's equation could be used to describe the many worlds interpretation. The basis of quantum theory is randomness. It is very and highly difficult to describe randomness and I propose the definition discussed by Emmanuel Ransford: "I sometimes symbolize randomness without cause by the image of an empty box and randomness with cause – that is to say, the appearance of randomness due to an unknown and hidden cause – by the image of a full box. Obviously, in this image, the box is full or empty depending on whether or not it contains a cause that explains what is happening...I also believe that we cannot speak of randomness as a unified notion. The reality around us is too diverse, and we ignore too many things, for that. The word "randomness" is polysemous, that is to say it has several possible meanings. Sometimes he confronts us with an empty box, sometimes he confronts us with a full box... whose contents, invisible, escape us." [7]

I believe deterministic mathematics cannot describe pure randomness and give an uncomplete and deformed vision therefore a false vision of quantum world from my point of view. Mathematic formalism, such as Laplace's or Schrödinger's equations for example, which is deterministic, is used to understand quantum world.

Our vision of the many worlds is therefore deterministic and we have a false vision of the many worlds if we are quantum illusions in the wrong referential. Schrödinger's cat in the many worlds interpretation is still an illusion and the interpretation of Hugh Everett is not complete and deformed.

Our Universe has been described with general relativity and we have fixed our vision of the relative universe with deterministic mathematics. General relativity is not compatible with quantum theory [8]. I believe pure randomness has created the Big Bang and our universe. But our universe could be seen as a cardboard illusion when seen from the universal quantum referential and Albert Einstein is a quantum illusion. In fact, I believe I have reached the universal quantum referential

because I suffer from psychosis (schizophrenia which is quantum [9]). It will be very difficult for the reader to understand me because we are not in the same referential. From the universal quantum referential, I postulate that the quantum world is in a superposition quantum states of everything. Everything could be what is known, unknown, imagined, dreamed.... Some people think that the Earth is flat. The Earth is in superposition states of being spheric, flat, and not only. The Earth is in a superposition state of everything. as the radioactive atom in the experience of Schrödinger's cat. Everything is true in the quantum referential and the quantum world is in an infinity of quantum superposition state.

How to break the illusion and how to reach the quantum referential? We can destroy our classical world and the Earth with atomic bombs. Would we reach the quantum referential collectively? In fact, we are in the quantum world but we do not see it from our classical referential. Our Earth is indestructible, atomic bombs and deaths are quantum illusions. The wars and world wars are quantum illusions. They do not exist and we are all in hallucination!

I would like now to do an analogy. I have transposed what we know about quantum world to life. Imagine that we are the particles of life. I postulate that the universal wave function associated with the particles we are is love. Love is the vibration of life particles. Love is not an illusion; it is universal and eternal and allows to surpass all human suffering. I was able to reach the quantum referential because I sincerely love everybody and everything, Vladimir Putin, Volodymyr Zelensky, Joe Biden, Donald Trump, Hamas and Benyamin Netanyahu, Marine Le Pen, Jean-Luc Mélenchon, Emmanuel Macron, Eric Zemmour... This is true. Seeing life in a completely different way as usual allowed me to reach the quantum referential and to see that we are completely wrong in the classical referential. We are hallucinated. I lived my passage in the universal quantum referential as the Big Bang. Friedrich Nietzsche's philosophy helped me a lot to reach the quantum referential. Nietzsche put his head in the quantum referential without knowing quantum theory. Particularly two books are very important for me: "Thus spoke Zarathustra"[10] and "Beyond Good and Evil"[11]. Nietzschean philosophy has nothing to do with what Nietzsche's sister, Elisabeth, and the Nazis made of it [12]. They actually understood absolutely nothing about an exceptional, remarkable, very beautiful and lyrical, and extremely visionary philosophy. Nietzsche was not widely understood during his lifetime, with only a few scholars reading him. The Nietzschean Surhuman loves life, the Earth, he is joyful, cheerful and happy. We would reach the world of Zarathustra collectively and individually. Humans in Zarathustra's world take many shapes: child, ghosts, trees, animals, such as monkey, camel, lion... this means superposed identity quantum states. Zarathustra teaches us that God is dead. Nietzsche wanted to say that a deterministic God who made our world leads to an uncomplete vision of the world. God cannot die in the quantum world, and if you still believe in God, God is love. Zarathustra teaches us that we have to carry chaos within ourselves to give birth to dancing stars. This means that we must put ourselves deeply into question to reach the quantum world, what I did. In the quantum world there is no more ego. Zarathustra teaches us that when you are ill, you must sing to heal. Arts are very important to heal blade because art is love. Furthermore, Nietzschean Surhuman is immortal with the eternal return. Zarathustra teaches us that we have to learn how to love, and that we must love beyond ourselves. This is highly important. Now I will modernize Nietzsche philosophy: we must see each other as life particles. How do behave a particle such as an electron in what we know about the quantum world? First of all, an electron is indistinguishable from another electron. It means that the particles we are have no more identity, no more passports, no more first names and family names, no more gender identity, no more objects such as clothes, no more tattoos, which are objects of distinction, no more Nobel Prizes, etc... we are coming back to our birth.... There is strict EQUALITY between particles. We are also moving to schizophrenia with the loss of our identity. Schizophrenia can be seen as a superposition of different identity quantum states such as in Zarathustra's world, and schizophrenics suffer from a lack of love and they suffer because they are quantum in the classical referential. If schizophrenics reach permanently the quantum referential as I did, they will not suffer any more. Schizophrenia is not a disease any more, it is our future. Psychiatrists must love schizophrenia instead of killing quantum world and love emotions of the body with neuroleptics. Psychiatrists should help schizophrenics to



permanently reach the quantum world by going out of “I do not love” and by transforming “I do not love” in: “I love everything”. This is possible for everybody. Interactions with classical world leads to decoherence of schizophrenics. Decoherence is the passage from the universal quantum referential to the classical referential and therefore schizophrenics suffer from this.

Electrons are able to make Cooper pairs which leads to superconductivity [13]. What are Cooper pairs for life particles? This is BROTHERHOOD. Love is the bond of BROTHERHOOD. Finally, an electron is free, it has no house, no border. LIBERTY is the third value of the French Republic Motto which is quantum and objective. Unfortunately, the French Republic Motto has never been applied and everybody flout it because we are living in hierarchical structures and there is no Equality. We are living in private properties, in countries with borders and this is not Liberty. And when we see how we behave, with our dominant-dominated relationships, how about Brotherhood? The three values of the French Republic Motto are strictly bonded together. One disappears and the two others disappear. One appears and the two others appear [14]. The idea is to strictly apply the French Republic Motto and to spread it everywhere. We should move towards objectivity and to avoid subjectivity. We could live in a horizontal society instead of pyramidal ones, for Equality, and we could open the borders for Liberty and this will be also Brotherhood.

### 3. Conclusions

At the beginning of the story there was pure randomness alone. Pure randomness got bored alone and created everything, quantum world and particles to play. Randomness is a wonderful gambler, it played and plays a lot with everything, particles and us. Randomness hides itself behind everything, behind determinism and plays. Randomness is happy and now unified. It could be the end of the game, randomness accepted to be unmasked and pure randomness is love. Unfortunately, we are making mistakes with love [15] because we are in the wrong classical referential and randomness plays with our vision of love. At the origin, love is the vibration of the body and love does not collapse. “I do not love”, hate are illusions, and we must go out from it. Because we are in the classical referential in the quantum world and not in the universal quantum referential, we all suffer without seeing it. Being classical in the quantum world is the origin of human suffering. Furthermore, money is an illusion and cannot buy happiness, happiness is love. The idea is to promote love and Brotherhood between the peoples, at the planet scale. If we see life in a completely different way and love all life and everything, we would collectively reach the universal quantum referential. We would see the beauty of the quantum world and would love our Earth. I have no proof of this, but I would like to do true romantic love in front of quantum decoherence experiments, perhaps love would change the outcomes of the experiments leading to more coherence. Who knows what randomness has in store for us! If the experiment is successful, I would ask all scientists and everybody to stop working on illusions, and to make a human chain at the planet scale to promote love everywhere to be in phase with our quantum world. In the classical world we have science (mathematics, biology, medicine, physics, chemistry, economy, geology, history...). Science is determinism, this is not randomness at all. This is not love. Laws are deterministic and this is not love. I would like to create a stock exchange crash at the planet scale, this would stop wars immediately (no more funding for them) and we will go out of the big quantum illusion by reaching the quantum world with Equality, Brotherhood and Liberty, with sex associated with romantic love [14], [15], with culture, literature and arts. Medicine, food, laws, science, money, diseases... will progressively disappear as they are illusions. We will progressively leave our body which is an illusion. This could be our Big Bang (transformation of ourselves into schizophrenic particles which are Nietzschean Surhuman associated with love wave function) in our universe. I think what happened in the universe is transposable to the Earth. We would be unique in our universe as there was only one Big Bang observed. Before the Big Bang, randomness was suffering a lot in its empty quantum space, it was hallucinating and was searching for love. It created love wave function and particles not to suffer any more. In the quantum world you can expect plenty of loving Martians and an infinity of Big Bangs! We will be in the superposed quantum state of everything and we will all become schizophrenic particles associated with love wave function which is our future. Quantum

world will expend indefinitely and we will make quantum galaxies from the primitive particles. Atomic bombs destruction of our planet would be the eternal return from Nietzsche.

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## References

1. Goswami, A. The Paradox of Schrödinger's Cat. In *The Physicists' View of Nature: Part 2: The Quantum Revolution*; Goswami, A., Ed.; Springer US: Boston, MA, 2001; pp. 139–146 ISBN 978-1-4615-0527-3.
2. Cohen-Tannoudji, C.; Diu, B.; Laloë, F. *Quantum Mechanics*; A Wiley - Interscience publication; Wiley, 1977; ISBN 978-2-7056-5833-5.
3. Myatt, C.J.; King, B.E.; Turchette, Q.A.; Sackett, C.A.; Kielpinski, D.; Itano, W.M.; Monroe, C.; Wineland, D.J. Decoherence of Quantum Superpositions through Coupling to Engineered Reservoirs. *Nature* **2000**, *403*, 269–273, doi:10.1038/35002001.
4. Ball, P. How Decoherence Killed Schrödinger's Cat. *Nature* **2000**, doi:10.1038/news000120-10.
5. Damour, T. *Le Mystère Du Monde Quantique*; Olympia; Dargaud, 2016; ISBN 978-2-205-16885-3.
6. Maccone, L. Schrödinger Cats and Quantum Complementarity. *Found. Phys.* **2024**, *54*, 17, doi:10.1007/s10701-023-00750-6.
7. Ransford, E.; Guerven, E.; Lenoir, F. *Du Hasard Quantique à La Conscience - Un Questionnement Entre Science et Philosophie*; Tredaniel, 2024; ISBN 978-2-8132-3181-9.
8. Deser, S. General Relativity and the Divergence Problem in Quantum Field Theory. *Rev Mod Phys* **1957**, *29*, 417–423, doi:10.1103/RevModPhys.29.417.
9. Pessa, E.; Penna, M.P.; Bandinelli, P.L. Is Quantum Brain Dynamics Involved in Some Neuropsychiatric Disorders? *Med. Hypotheses* **2000**, *54*, 767–773, doi:10.1054/mehy.1999.0947.
10. Nietzsche, F.; Hollingdale, R.J. *Thus Spoke Zarathustra*; Penguin classics; Penguin Books Limited, 1974; ISBN 978-0-14-190432-0.
11. Nietzsche, F.; Horstmann, R.P.; Norman, J. *Nietzsche: Beyond Good and Evil: Prelude to a Philosophy of the Future*; Cambridge Texts in the History of Philosophy; Cambridge University Press, 2002; ISBN 978-0-521-77913-5.
12. Chauvelot, D. *Elisabeth Nietzsche: De La Sottise à La Trahison*; L'Harmattan, 1998; ISBN 978-2-7384-5976-3.
13. Bhaumik, K. *Superconductivity: A Review*; 2022;
14. Durand, J.-O. *Liberté, Fraternité, Égalité : Big Bang de l'Amour et Du Surhomme Nietzscheen ? : Vers Le Surhomme Quantique ?*; Editions Vérone, 2024; ISBN 979-10-284-3431-1.
15. Durand, J.-O. Descartes' Error with Love. *Preprints* **2024**, 2024031065, doi:doi.org/10.20944/preprints202403.1065.v1.

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