

Article

An Idealist Model of Quantum Entanglement

William C. Treurniet*

Abstract

The occurrence of quantum entanglement has been established empirically, but the underlying process is not well understood. Entanglement is said to exist when a sufficiently high correlation is measured between the quantum states of pairs of particles having no opportunity to communicate. An extraterrestrial cosmology based on ontological idealism is suggested to explain the phenomenon. Particular heterodyning processes in the vibrational energy of consciousness are proposed to create the entanglement. The non-locality of entanglement is typical of other phenomena of consciousness such as remote viewing.

Keywords: Quantum entanglement, idealist model, extraterrestrial, cosmology, consciousness, vibration, energy.

1. Introduction

Quantum entanglement is a name for a mystery in modern physics - a label for a phenomenon not understood. Somehow, the quantum states of particle pairs can become highly correlated, even though any communication that could account for this would be faster than the speed of light would allow (e.g., Aspect, 1999). For this to occur, the Copenhagen interpretation of quantum mechanics (Faye, 2019) requires that the two particles be able to interact non-locally.

An experiment with photons can show when two of them are entangled. A photon can have the property of spin which has a value of +1 or -1. In a basic experiment, a photon is split by a nonlinear crystal, and two photons with lower energies and momenta are sent in different directions. They become entangled when the original photon is split into two in the crystal. The possible quantum states are superposed until a measurement is made, so neither photon of the pair "knows" the state of its partner. Each photon goes to one of a pair of measuring devices that are far apart. The state of photon 1 is measured and is found to be, say, +1. Then the state of photon 2 is measured and is found to be -1. Or the signs of the states could have been -1 then +1. One photon's measured state appears to be the mirror image of the other photon's measured state. The experiment design is such that the information about photon 1 could not have been communicated to photon 2 in any way. Yet the states of the particles are inexplicably dependent and that is why the particles are said to be entangled.

A possible mechanism for entanglement suggested in this article is founded on a philosophy known as ontological idealism. That is, "something mental (the mind, spirit, reason, will) is the ultimate foundation of all reality" (Guyer and Horstmann, 2015). Kastrup (2019) argued persuasively that the philosophy of idealism is a more logical basis for understanding reality than the currently popular view of materialism. He developed an intuitively appealing model of a mental universe. However, Treurniet (2019) suggested that Kastrup's model falls short of what is

*Correspondence: William C. Treurniet, Independent Researcher, Canada. E-mail: wtreamiet@gmail.com

required. It cannot account for so-called paranormal phenomena such as near-death experiences (Van Lommel, 2010; Sharpe, 2017), out-of-body experiences (Ziewe, 2008, 2015), remote viewing (Tart et al., 1980; Puthoff, 1996), or the materialization of physical objects (Roll, 1972; Von Ludwiger and Nahm, 2016; Treurniet, 2019).

An alternative idealist cosmology emerged from discussions with extraterrestrial beings who call themselves the Zeta race. The beings spoke with many people over several years through the Australian medium, Paul Hamden (Treurniet and Hamden, 2020). When the medium entered a particular altered state of consciousness, a Zeta spoke with the medium's voice. A cosmology emerged in which matter is experienced as transformations of information encoded in a non-physical energy of consciousness. As with any cosmology, there are initial conditions, and these were expressed as attributes of consciousness (Treurniet, 2019).

Some direct interactions between these beings and the medium were witnessed by his acquaintances (Treurniet and Hamden, 2022a, *Appendix A*). The shared experiences established that the extraterrestrial contacts were not a figment of the medium's imagination. The conversations with the Zetas were unscripted, and both the complexity of the information and its internal consistency support the claim that the source of information were entities other than the medium. The information was analyzed from different perspectives in Treurniet and Hamden (2022a, 2022b).

Familiarity with the cosmology is required to understand the proposed mechanism for quantum entanglement. Section 2 briefly describes the cosmology. Section 3 expands on how information represented in a vibrating energy of consciousness may be manipulated. Section 4 proposes how the process might account for the entanglement phenomenon. In the following information, direct quotes from the Zetas are written in italics.

2. A cosmology of consciousness

The cornerstone of the Zeta understanding of reality is a unitary consciousness (Treurniet, 2019). Consciousness has properties analogous to those of a single, vibrating acoustic or electrical wave. All that exists, including our universe of matter and other states of existence not accessible to us, are configurations of this energy of consciousness.

The being of total consciousness is composed of 'all-that-is' but lives an "*experience in separation*." It is divided into many separate entities and environments, some experienced as matter and others as non-matter. Part of the energy is configured as self-aware entities organized hierarchically. This class of energies allows consciousness to exist in separation so that it can have new and independent experiences.

Bodies of matter need not be self-aware, but the things we think are inanimate are as much configurations of consciousness as the beings who are self-aware. A Zeta said, "*These supposedly inanimate objects are conscious things, ... the difference is in the level that you communicate with them, as you are only a construct of matter as they are a construct of matter.*" Consciousness is at the root of all existence.

2.1 The creation and perceptual processes

A process intrinsic to consciousness is creation. It enables a creator being to place a pattern in a grid of consciousness representing a thought form in its mind. The creation process is analogous to making a simple physical hologram. When the being has the intention to create, the thought of the desired object modulates its *highest possible vibration*, and further processing produces holographic-like interference patterns known as *quanta*. The quanta are preserved somewhere in the multidimensional grid at a particular level of vibration. It is a mental substrate in which thought forms persist.

A creation is experienced anew when it is acted upon by a being's perceptual process. Like creation, perception is an intrinsic function of consciousness. Perception transforms the information encoded in quanta into the discrete thought from which it was created. The thought then becomes part of the being's experienced reality. It may be experienced by any being who has access to that vibrational state or higher. Matter is inferred from the sensations a being experiences.

2.2 Multidimensional vibrations

Everything that exists is encoded as a pattern of vibration that distinguishes it from other things. The vibration dimension has an ordinal scale, meaning that a given vibrational state is higher, the same, or lower than another state, but no metric exists for measuring the distance between them. Vibration was portrayed by the Zetas as a multidimensional attribute of consciousness. A model composed of orthogonal axes, $V[\mathbf{I}][\mathbf{j}][\mathbf{k}][\dots]$, was created that could be extended to as many dimensions as required (Treurniet and Hamden, 2022a, Chapter 14). A Zeta said, "*You have one frequency in the physical, multiple frequencies in the etheric body, and then the highest possible frequency that you are able to be determined by.*"

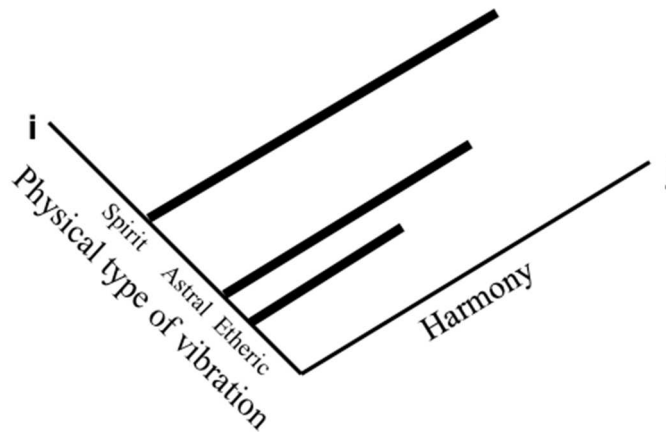


Figure 1. A model of vibration limited to two dimensions.

Figure 1 shows a drawing of the model limited to two dimensions. One axis is labelled "*Physical type of vibration*" which identifies vibrations of planetary realms beyond the reach of the human race. A bar extending from this axis as a base shows that the being has evolved to a certain level

on the “*Harmony*” dimension. High vibrations on this dimension are correlated with unconditional love, harmony, forgiveness, and other positive states that all entities hope to achieve eventually.

The Zeta also mentioned *multiple frequencies in the etheric body*, and these would be represented on still another dimension beyond the two drawn in the figure. The *multiple frequencies* encode the various patterns of energy that represent the structure and function of a physical body.

The Zetas confirmed that other *Physical type of vibration* races of beings exist. They said, “*There is a potential for beings of races to exist in the different forms of physical frequencies. ... If we choose to exist in a finer level of physical frequency, then we would be not seen in the normal spectrum of a human.*” Races such as the Zeta race have vibrations that are also of the physical type but do not resonate with human vibrations. The Zeta vibrations are interspersed among other vibrations on the *ij* dimension in Figure 1. Quanta everywhere on the *ij* plane are experienced as matter when transformed by a matching perceptual process.

3. Heterodyning states of consciousness

The flow of information in consciousness can be controlled by a process known as heterodyning. It is normally applied by humans to the design of physical electronic circuitry. A simple application creates an output signal that depends on the properties of two input signals. In particular, the frequency of the output is the difference between the frequencies of the inputs. The input signals in electronics applications must pass through a non-linear device such as a transistor. Without the non-linearity, there would be no difference signal.

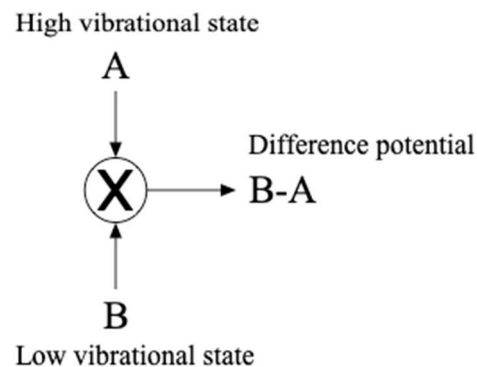


Figure 2. Heterodyning vibrational states

An analogous process occurs in the vibrations of consciousness. Two beings existing at widely different states of consciousness or vibration may interact to create a potential at the difference between them (Treurniet and Hamden, 2022a, Chapter 15). In Figure 2, A and B represent the respective high and low vibrations on a particular dimension. Intention, signified by X, is analogous to the non-linearity of the physical transistor. The difference potential, (A-B), is a potential at the difference between the input vibrations. It is created with the intention of the participants and enables them to resonate at that shared potential.

Heterodyning is an important function in a number of processes in consciousness. The process allows one vibrational state to communicate information to another state in a controlled way. For example, the heterodyning process is instrumental in the process of self-healing (Treurniet and Hamden, 2022a, Chapter 28) and in a technology for creating a synthetic quantum environment (Treurniet and Hamden, 2022a, Chapter 20).

4. Heterodyning may create quantum entanglement

The Copenhagen interpretation of quantum mechanics holds that at the quantum level there is no phenomenon until it registers as an observation or measurement (Faye, 2019; Close, 2000). Until then, all possible quantum states are presumed to be in superposition. The state is indeterminate. When a particle's state is then measured, the superposition is lost and the particle is in a known state. Critical experiments concluded that different parts of a system may be non-local or not physically able to interact, and yet may share a common reality as expressed by the Copenhagen interpretation (e.g., Aspect, 1982, 1999). The behaviours of particles can become correlated, even though they cannot interact physically because of the limit imposed by the speed of light. A high correlation of the states of particles is recognized as evidence for quantum entanglement.

Quantum entanglement was specifically mentioned by the Zeta beings in Treurniet and Hamden (2022a, Chapters 15 & 20) while they were discussing a technology for creating a synthetic quantum environment (SQE). A SQE is a copy of a piece of an existing *matrix of reality*. A Zeta said, “*So depending on what you wish to create and preserve as an environment, would determine the level of **quantum entanglement** that is required by a being that is to synthesize the energetic entities. ... A snap shot is taken and using the SQE, transpose the environment, and using the SQE then instigate change. This is a **mirror image process** to see what is sustainable.*” The Zeta implied that the state of each particle in the environment to be copied mirrored the state of an entangled particle, and so the states of entangled particles would guide the creation of the SQE.

Later in the conversations, creation of an SQE was discussed using the heterodyning concept instead of quantum entanglement. To initiate the heterodyning process, the required intention is brought by a Zeta operator. An existing *matrix of reality* is copied by heterodyning it with a constant higher-vibration input energy also supplied by the Zeta operator. With the constant input from the Zeta, the heterodyning difference potentials would mirror the matrix of reality. The difference potentials guide the process that creates the SQE contents. Both quantum entanglement and heterodyning were implicated in the same process, but in different conversations.

A Zeta provided another hint that quantum entanglement may indeed be related to the heterodyning process. They were asked directly if heterodyning to transfer “*the quanta information of the cellular structure of a human body*” during self-healing was at all like the quantum entanglement process involved in creating a SQE. The Zeta replied rather mysteriously, “*That question will require much more background information because the comparison between quanta and entanglement and synthetic quantum environment has relationship but also is difference, not different, a difference*” (Hamden and Treurniet, 2022a).

Curiously, the word “*difference*” was emphasized in contrast to “*different*.” In a separate conversation, they were asked if another word for the heterodyning process would be preferable.

They tentatively suggested it could be known as the “*difference*” (Hamden and Treurniet, 2020). This is the same word as in the earlier comment by the Zeta, suggesting that the two processes were “*not different*” but that both used the “*difference*”; i.e., the heterodyning process. This comment from the Zeta reinforces the notion that quantum entanglement may be caused by a heterodyning process.

Human scientists can create and measure quantum entanglement and so it can be recognized when it occurs (Bell, 1964; Aspect, 1999). Before a particle is measured, it is in a state of quantum superposition according to the Copenhagen interpretation. One method for creating a pair of entangled photons is to pass a high-energy photon through a nonlinear crystal. At that instant, the original photon is split into two lower-energy photons which begin to behave as one entity whatever the spatial separation.

When the measurement of a particle’s state occurs, it mysteriously changes from a superposition of quantum states to a measurable state. How could that happen? A Zeta observed, “*Your scientists are now understanding the relationship between the subatomic particles, and that the state is determined by its relationship to other particles. But they do not understand that it is the consciousness that creates the state, and it is consciousness that has created the illusion of matter*” (Treurniet and Hamden, 2022a; Treurniet, 2022). Consciousness appears able to assign a quantum state during a measurement. More specifically, the reference in the quote to the illusion of matter indicates that the perceptual process of consciousness assigns the state, since the perceptual process creates the illusion of matter.

The assignment of a particle’s state by the perceptual process should normally be independent of the states of other particles. However, entanglement is observed to change that both theoretically and experimentally. The perceptual process of consciousness appears to assign a state at one location that predicts the state of a different particle at another location. Figure 3 suggests the processes involved in a simple case.

In Figure 3, an entanglement model is proposed to measure the quantum states of two entangled

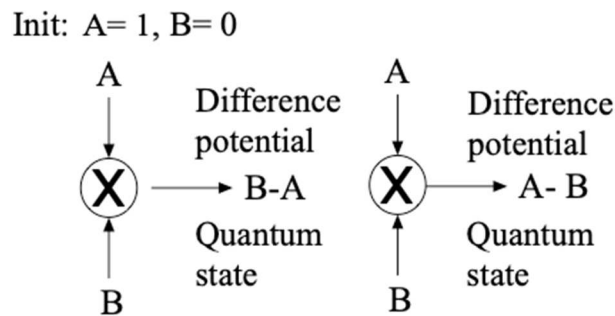


Figure 3. The entanglement model: Heterodyning processes for assigning states of two entangled particles.

particles. The difference potentials of two heterodyning processes represent the quantum states of the two particles. Each difference potential is initialized to an indeterminate superposed state when the entanglement is created. The superposition changes to a particular quantum state when a consciousness chooses to measure it with the heterodyning process. The particles remain linked to the entanglement model until both quantum states are measured. Consciousness creates a state

when a heterodyning difference potential is assigned. The implication that the perceptual process creates the state is appropriate since the result is an increase in the awareness of consciousness.

5. Discussion

According to the Copenhagen interpretation of quantum mechanics, the quantum states of entangled particles are correlated when measured, and the correlation between them will be greater than a certain criterion (Bell, 1964). The particles' quantum states are thought to be mutually dependent, even at great spatial separations. Further, the Zeta said, "... *it is the consciousness that creates the state,*" suggesting that measured particle states are controlled by a consciousness local to the measuring process. The heterodyning difference potentials of the entanglement model in Figure 3, or the coincident quantum states of the particles, would be a function of consciousness.

The entanglement model in the figure is proposed to simulate the quantum states of entangled particle pairs. The signs of the measured states would be determined by which heterodyning process was selected initially. The choice would be arbitrary. Consciousness would replace the superposed state of each particle with the measured difference potential or quantum state. The correlation between the states at the two measurement locations should reproduce the high correlation measured in an experiment.

The reason why particles become entangled is not yet clear. Figure 3 suggests that two particles become entangled when they are linked to an instantiation of the entanglement model in consciousness. When an experimenter measures the state of an entangled particle, it is associated with one or the other heterodyning process in the model. The heterodyning difference potential is assigned in consciousness to the state of the particle being measured. Similarly, the other heterodyning difference potential is assigned the state of the other particle. The instantiation of the entanglement model is an implementation of consciousness and should not be confused with a process of matter.

The Zetas' view that consciousness is involved in entanglement suggests another phenomenon that also demonstrates non-locality. Consciousness is clearly involved in remote viewing where a viewer's intention is to have sensory experiences of a particular remote location (Puthoff, 1996). Like the model of entanglement, remote viewing depends on the intention of a non-material consciousness. The remote viewing task emphasizes the end goal and not the path taken to reach the goal. A focus on the end result may be a general principle for processes in consciousness like entanglement.

Received December 11, 2022; Accepted January 23, 2023

References

- Aspect, A., Dalibard, J., and G. Roger. Experimental test of Bell's inequalities using time-varying analyzers, *Physical Review Letters*, **49**:25, 1804, 1982.
- Aspect, A., Bell's inequality test: more ideal than ever, *Nature*, **398**, 18 March, [Online] <https://www.nature.com/articles/18296>, 1999.
- Bell, J. S., On the Einstein Podolsky Rosen Paradox, *Physics* **1**(3), 195-200, [Online] <https://journals.aps.org/ppf/pdf/10.1103/PhysicsPhysiqueFizika.1.195>, 1964.
- Close, Edward R. *Transcendental Physics*, toExcel Press, Bloomington, Indiana, 2000.
- Faye, J, "Copenhagen Interpretation of Quantum Mechanics", *The Stanford Encyclopedia of Philosophy*, Edward N. Zalta (ed.), <https://plato.stanford.edu/archives/win2019/entries/qm-copenhagen>, 2019.
- Guyer, P. and Horstmann, R. Idealism, *Stanford Encyclopedia of Philosophy*, [Online] <https://plato.stanford.edu/entries/idealism/>, 2015.
- Hamden, P. and Treurniet, W. C. *The Zeta Interviews*, 4th ed., © Hamden & Treurniet, Lulu Press Inc., [Online] www.treurniet.ca/zetacom/zetaprimer.htm, 2020.
- Kastrup, B. *The Idea of the World*, John Hunt Publishing Ltd, Alresford, Hampshire, UK, 2019.
- Puthoff, H. E. CIA-initiated remote viewing program at Stanford Research Institute, *Journal of Scientific Exploration*, **10**(1):63-76, 1996.
- Roll, W. G. *The Poltergeist*, Signet Books, New American Library, Scarborough, Ontario, 1972.
- Sharpe, K. C. "The shoe on the ledge", in *Surviving Death: A Journalist Investigates Evidence for an Afterlife*, Kean, L. (Ed), Three Rivers Press, New York, 2017.
- Tart, C., Puthoff, H. & Targ, R. Information transmission in remote viewing experiments. *Nature* **284**(191) [Online] <https://www.nature.com/articles/284191a0>, 1980.
- Treurniet, W. A Cosmology Founded on Intrinsic Attributes of Consciousness, *Journal of Consciousness Exploration & Research*, **10**(6):454-474, [Online] <https://jcer.com/index.php/jcj/article/view/822/832>, 2019.
- Treurniet, W. An extraterrestrial cosmology of consciousness, In *A Greater Reality: The New Paradigm of Consciousness, the Paranormal, and the Contact Modalities - Vol. 1*, Hernandez, R., Schild, R., Grosso, M., Klimo, J., Long, J. (Eds), © Consciousness and Contact Research Institute, p. 448-491, [Online] <http://www.treurniet.ca/zetacom/Beyond%20materialism-ETCosmology.htm>, 2022.
- Treurniet, W. and Hamden, P. *A Primer of the Zeta Race*, 17th Ed., © Hamden & Treurniet, Lulu Press Inc., [Online] www.treurniet.ca/zetacom/zetaprimer.htm, 2022a.
- Treurniet, W. and Hamden, P. *Extraterrestrial Cosmology and Technology*, 6th Ed., © Hamden & Treurniet, Lulu Press Inc., [Online] www.treurniet.ca/zetacom/zetaprimer.htm, 2022b.
- Van Lommel, P. *Consciousness Beyond Life: The Science of the Near-death Experience*, HarperCollins, New York, 2010.
- Von Ludwiger, I. and Nahm, M. Apport phenomena of medium Herbert Baumann (1911-1998): Report on personal experiences, *Journal of Scientific Exploration*, **30**(4):537-558, 2016.
- Ziewe, J. *Multi-dimensional Man*, Lulu Press Inc., Morrisville, North Carolina, [Online] <https://bit.ly/3HoyhFg>, 2008
- Ziewe, J. *Vistas of Infinity*, Lulu Press Inc., Morrisville, North Carolina, [Online] <https://bit.ly/3HoyhFg>, 2015