

«Embraced (Entangled) Forever and Ever» (Post By Elli At Facebook from Dimitri Liantinis - Excerpt From Gemma)

Post by “Cassius” of September 19, 2024 at 6:21 PM



[Original Post Link](#)

Quantum Entanglement is a phenomenon in quantum mechanics where two or more particles become interconnected in such a way that the state of one particle directly depends on the state of the other, regardless of the distance separating them.

Key Characteristics of Quantum Entanglement:

<https://www.epicureanfriends.com/thread/4053-embraced-entangled-forever-and-ever-post-by-elli-at-facebook-from-dimitri-lianti/?postID=32244#post32244>

1. **Non-locality:** Changes in the state of one particle directly affect the state of the other, even if they are far apart.

2. **Superposition of States:** Entangled particles are in a superposition, meaning they can be in multiple states simultaneously until measured. For example, if two photons are entangled and we measure the polarization of one, the polarization of the other will be immediately determined, regardless of the distance between them. This phenomenon has been experimentally confirmed and is one of the most impressive demonstrations of quantum mechanics.

Applications: Quantum entanglement is fundamental for the development of quantum computers, quantum communications, quantum cryptography etc.

From [Epicurus' Letter to Herodotus](#), Paragraph 47 we read : «... ὅτι τα εἰδῶλα ταις λεπτότησιν ανυπερβλήτοις κέχρηται [ατόμοις], **οὐδέν αντιμαρτυρεῖ των φαινομένων**· ὅθεν και τάχη ανυέρβλητα έχει (ως άνω κινούνται ισοταχώς και κατά παρέγκλισιν) πάντα πόρον σύμμετρον έχοντα ...»

«**Nothing contradicts the phenomena** that the images (in the atoms) are extremely fine (which) move with unsurpassable speed (and as above said move at equal speed and by swerve), always maintaining every of their path symmetrical ...»

Artificial Intelligence said: "The idea of Epicurus described in the above excerpt can be paralleled to the concept of quantum entanglement to some extent. In quantum entanglement, two or more particles become interconnected in such a way that the state of one directly affects the state of the other, regardless of the distance separating them".

And of course, if Plato heard this, his face would turn green and Aristotle's hair would stand on end (see photo)... because only with their methodology of dialectics and endless verbosity, we Greeks would have become the laughingstock of the ecumene (as the Great Democritus says in the photo)!

Because nothing contradicts the phenomena that the Titan Epicurus, in his letter to Herodotus, was the first to conceive in a seminal/fruitful way (even before it was experimentally confirmed) the uniform-equal speed (of light) as well as the two most important principles of quantum theory, namely:

With the swerve of atoms is meant the superposition (see today Heisenberg's uncertainty principle) of which? The finest of atoms (see today photons) that are ALWAYS maintaining to each other a symmetrical path (see today the quantum entanglement).

"I recommend constant activity in the study of nature; and this way more than any other I enjoy calm to my life." (Epicurus letter to Herodotus)  Image not found or type unknown

[...Many years ago, I had the pleasure of a chance meeting with Werner Heisenberg. It was during an evening in the Beethoven-Saal in Bonn. July of 1972. In front of me stood an old man of 71 years. His eyes were light-coloured. They had a brilliance that was slightly suppressed by the rough weather, the tiredness and deep contemplation. An expression of treasured attentiveness.

Average in terms of height, attired in the subdued skin of the senior ages, yet standing straight, he emanated the impression of a forgotten cheerfulness. His movements were peaceful. His characteristics heavily set. In his expression you could almost perceive the reflection of a long victorious campaign in foreign lands. It was roosting there for all to see, like an evening owl. A feeling of serenity enveloped him. I approached, he held out his hand.

- "Oh! video hominem", I said.

- "Ὅρα ὃν ἄνδρα. Ja, ich verstehe das Lateinische und antworte griechisch" (Yes, I understand Latin and respond in Greek), he replied.

Among the millions of the Agora of my century I saw, for a single instant, a man - and I had no need for a lantern in midday like the ancient Diogenes. On my way out I was floating with eyes closed, like Karajan conducting Beethoven's Pastoral. Hovering somewhere in between the stormy weather on the one side, and a pastoral song of simplicity on the other. Between the Gewitter-Sturm and the Hirtengesang...]

(the above excerpt is by Dimitris Liantinis from his book "Gemma" - translated from Greek into English by our friend Yiannis Tsapras).