

# Quantum Meanings in Philosophy

## On consciousness and reality

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### Abstract

The quantum nature of reality implies a formulation of conscious perception which implies the many-world theory: every instance ( $E$ ) of the Totality ( $S$ ) of particles ( $s$ ) preserves quantum effects, distributing them among Objects ( $e$ ) within specific Environments ( $E$ ), where Objects exist only (as random collapses of wave functions) from the perspective of a Consciousness-Object ( $c$ ) observing them, while remaining incoherent to other Consciousnesses in different Environments. The Totality allows multiple Punctuations ( $P$ ) of particles, each  $P_i$  defining distinct local Objects, reflecting how Consciousness perceives reality through coherent patterns.

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The Totality ( $S$ ) of all possible quantum states of particles ( $s$ )

$$[1] \quad S = \{s_1, s_2 \dots s_n\}$$

preserves the quantum effects (non-locality, superposition, etc.) of the  $n$  particles ( $s$ ), distributing them effects diffusely among the  $n$  Objects ( $a$ ) of a specific Environment ( $E$ )

$$[2] \quad E_i = \{e_1, e_2 \dots e_n\}$$

among many possible Environments ( $E$ )

$$[3] \quad E = \{E_1, E_2 \dots E_n\}$$

According to quantum theory: a macroscopic Environment “has” quantum effects like its particles, but it “appears” static for it is a statistical average of its quantum effects.

An Object ( $e_{i,j} \in E_i$ ) “exists” as a random collapse of states

$$[4] \quad e = \psi_{[m:n]}(S)$$

of a sector  $[m:n]$  of the Totality ( $S$ ). Any Object exists only “from the perspective” of the Consciousness ( $c_{i,k} \in E_i$ ) observing that Object. According to Schrödinger: the functions generating the Objects are wave functions ( $\psi$ ) because Objects have quantum effects and they interact within the Environment.

According to Wigner: Consciousness ( $c_{i,k}$ ) is a random (statistical) Object like any other Object, relative to which many other Objects collapse coherently with it; but those other Objects are non-existent (incoherent) from the perspective of another Consciousness in another Environment ( $E_j$ ).

A Totality of data – e.g.,  $S=\{E, A, N, D\}$  – opens up to multiple Punctuations ( $P$ )

$$[5] \quad P = \{P_1, P_2 \dots P_n\}$$

each ( $P_i$ ) of which defines multiple local Objects (e.g., “dean” or “Ande” or “and”): that is

$$[6.1] \quad P_i = \psi_i(S) : S \rightarrow E_i$$

$$[6.2] \quad \psi_i = \sum_{k=0}^n \psi_k(S_{[m_k:n_k]})$$

where the pointers  $m_k$  and  $n_k$  index the sectors of  $S$ , and the punctuation  $P_i$  is a specific realization or an instance of the function  $\psi_i(S)$ , which defines a particular environment  $E_i$ . According to Fourier: the function  $\psi_i$  generating the environment  $E_i$  is a wave formed by summing all the wave functions generating all the Objects included in the Environment  $E_i$  itself.

The Totality ( $S$ ) non-locally contemplates all of the possible Objects, but no Object ( $e_{i,j}$ ) is privileged over the others ( $E-e_{i,j}$ ) because all Objects coexist in the Totality:

$$[7] \quad S \equiv E$$

A Consciousness ( $c_{i,k} \in E_i$ ) is an Object, viz. a specific sector  $[m_k:n_k]$  of an Environment ( $E_i$ ) formed by a specific Punctuation ( $P_i$ ). Therefore, a Consciousness apprehends and can only apprehend the Objects coherent with the Punctuation from which that Consciousness itself depends.

### Conclusions

According to Wittgenstein: the language operates like a fishnet catching the meanings, but also entrapping the thoughts. That trap operates fundamentally on two ideas:  $I$  and  $you$ , with the statement  $I \neq you$  contradicting what quantum theories reveals about the substance of reality ( $S \equiv E$ ). Instead, in the Totality ( $S$ ) every structure ( $e$ ) coexists superposed to every other structure:  $I = you$ , each one caught as an equipossible randomized instance of  $S$ . Therefore, every Consciousness relies on a random Punctuation (just like every other Object) within the superposition of states and structures: every local  $you$  and  $I$  share the same non-local substance. That way, quantum theories replicate (revealing the common basis of) ancient philosophies.