

# **Superradiant Evanescent Photons generation inside Brain Microtubules and Physical Models of Human Consciousness**

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**Abstract.** Some of the most meaningful recent physical models of human consciousness, mainly based on Quantum Field Theory, consider mind as the result of dynamics of a tachyonic field somehow generated inside brain. Nevertheless, despite their undoubted interest, they are not be able to explain the origin and dynamics of such tachyon field. In this paper we have shown in water contained inside brain microtubules there exist the right conditions to allow the generation and the persistence of a superradiant field of coherent photons that exhibits tachyonic features and is shared among several microtubules even far apart each other. This model is then capable to give a possible explanation of the rise and dynamics of a peculiar tachyonic field inside human brain eventually at the basis of human mind and consciousness emergence.