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Introducing a Room-Temperature Controllable Continuous Fusion Method Using Low Energy Photon (< 3eV) Based on Quantum Mechanic Reinterpretation and the Discovery of Quantum Structure MEGGIE ZHANG, AISRO — My Research found wave-particle duality has made an assumption, which is not being aware nor documented. At sub-macro level wave behaves as a composite phenomenon comprising large amount of particles but individual particle does not form a wave pattern. This is true for both classical wave and electromagnetic wave. This suggests that wave is a group property. Quantum mechanic associates a wave equation with a particle and let it be a photon, a neutron or whatever. This treatment use a wave packets represent a particle assumes a wave packet – a group of particles, has the same property with a single particle. Therefore wave-particle duality really assumes that a group of particles and a single particle has the same property. Since a group can be represent by a mathematical set, for such assumption to stand mathematically speaking it requires the system to be a fractal. Therefore wave-particle duality really assumes matter as fractals. Fractals are nowhere differentiable and cannot be analyzed using transitional method. My research found evidence supporting a fractal nature of matter and universe and approximation using continuous function have caused problems theories therefore reinterpretation of quantum mechanic is needed. Based on the reinterpretation of quantum mechanic I was able to discover the quantum structure. Based on these understanding I designed and succeeded a room-temperature controllable fusion experiment using low energy photon.

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