

Abstract Submitted
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The Discovery of Quantum Structure and Quantum Mechanic Reinterpretation¹ MEGGIE ZHANG, AISRO — My recent interdisciplinary researches lead me to re-visit the quantum wave-particle duality property. By comparing many of the quantum physics results in scientific literatures I concluded the structure of quantum particle and formulated a new explanation of the wave effect. This discovery is further confirmed by many of the results in other fields. Evident also suggested inside quantum has a not-continuous multi-dimensional space. With this light I formed a hypostasis of space as a not-continuous infinite dimensional space. To proof or disproof this hypostasis I found strong evidences in literature supporting my hypostasis. By evaluating space properties it lead me to the same conclusion of Special Relativity and Uncertainty Principle. Evidence also support quantum is part of space itself and space carries electrical charges on both sides of its dimensional boundaries therefore we can detect the electromagnetic energy in vacuum. These discoveries also give good answers to many of the big questions in science such as gravity, dark energy and space travel.

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