

## On the Quantum Behavior of Nanoparticles: Quantum Theory and Nano-Pharmacology

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**Abstract :** Nanophase particles exhibit quantum behavior by virtue of their small size, being particles of gamma to x-ray wavelength [atomic range]. Such particles exhibit high frequencies, high energy/photon, high penetration power, high ionization power [atomic behavior] and are stable at low energy levels as opposed to bulk phase matter [macro particles] which exhibit higher wavelength [radio wave end] properties, hence lower frequency, lower energy/photon, lower penetration power, lower ionizing power and are less stable at low temperatures. The 'unique' behavioral motion of Nano systems will remain a mystery as long as quantum theory remains a mystery, and for pharmacology, pharmacovigilance profiling of Nano systems becomes virtually impossible. Quantum theory is the 4 - 3 - 5 electromagnetic law of life and life motion systems on planet earth. Electromagnetic [wave-particle] properties of all particulate matter changes as mass [bulkiness] changes from one phase to the next [Nano-phase to micro-phase to milli-phase to meter-phase to kilometer phase etc.] and the subsequent electromagnetic effect of one phase particle on bulk matter [different phase] changes from one phase to another. All matter exhibit electromagnetic properties [wave-particle duality] in behavior and the lower the wavelength [and the lesser the bulkiness] the higher the gamma ray end properties exhibited and the higher the wavelength [and the greater the bulkiness], the more the radio-wave end properties are exhibited. Quantum theory is the 4 [moon] - 3[sun] - [earth] 5 law of the Electromagnetic spectrum [solar system].  $4 + 3 = 7$ ;  $4 + 3 + 5 = 12$ ;  $4 * 3 * 5 = 60$ ;  $42 + 32 = 52$ ;  $43 + 33 + 53 = 63$ . Quantum age is overdue.

**Keywords :** electromagnetic solar system, nano-material, nano pharmacology, pharmacovigilance, quantum theory

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