True nature of 'particles' of ' matter', and their interactions: 'Particles' seem to be like 'free-floating-antennas'

Hasmukh K. Tank, 22/695 Krishna Dham-2, Vejalpur, Ahmedabad-380051 India.

For more than twenty years I have been trying to communicate the true nature of 'matter' through the system of 'peer-reviewed-journals', but the prestigious journals are not courageous-enough to publish. So I am expressing my view here to the open-minded readers.

'Matter' is not a 'substance', 'matter' is a 'process' i.e. 'a phenomenon'. 'Matter' is a process of fluctuations arisen in a 'continuum'. The continuum nature of the fundamental-reality allows formations of spherical 'wave-packets' of micromicroscopic-dimensions*. There are: integer (whole number) of such 'wavepackets'. The waves generated by these packets spread in all the directions. An interesting difference between the interference of conventional electromagnetic waves and the waves of 'matter-particles' is: that in the case of electromagnetic waves generated by radio-stations, the waves add constructively or destructively depending upon their relative phase, and the antennas remain firmly fixed; whereas in the case of 'matter-waves' depending upon the constructive or destructive superimposition of the waves, the antennas change their positions! Because the 'particles of matter' are so light-weight, that they change their positions like 'freefloating-antennas. Interference of 'matter-waves' causes the changes in the positions of the 'spherical wave-packets' called 'particles of matter'. We require not just 'strings' or 'loops' but rather three or four-dimensional-continuum to describe the 'particles of matter'. Thus, the particles of 'matter' are 'particles' as far as their micro-microscopic size, and their whole, integer number is concerned; and they are 'waves' as far as their true nature, of 'fluctuations of the most fundamental continuum', is concerned.

Reprinted from: Wikipedia Talk-Page on Wave-Particle-Duality <u>123.201.176.233</u> (talk) 11:39, 5 March 2010 (UTC)

*For detailed description, read the article titled: "On the Emergence of Physical World from the Ultimate Reality" <u>viXra:1312.0084</u>