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# Theory of 3 Folds and 4 Dimensional Universe (Beyond Standard Model of Particle Physics)

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## Abstract

I hree Postulates are defined here, based upon current experimental limit on size of Fundamental particle i.e. upto 10-19 m and an Empirical formula is derived (h=Q\*c\*k) giving maximum mass of particle within experimental range of  $\approx$  TeV. 3rd Postulate i.e. Equivalency between "Mass" and "Straight Imaginary Line" gives co-relation between massless and spin = 1 properties of Boson as proved in QED theory. Fundamental particles of Standard Model are arranged in 3 Folds way in 4th Imaginary Dimension; Bottom Fold, Top Fold and Middle Upper and Lower Folds with decreased in energy from TeV to approx. 0 eV respectively. With this representation of the Universe at atomic and sub-atomic level, it solves lot of current problems of SM of Particle physics like Matter-Antimatter asymmetry, origin of 3 Generations or families of Fermions, Nature of gravitating dark matter and repulsive dark energy particles, cosmological coincidence, origin of mass of hadrons like protons, wave-particle duality of particles etc. giving true insight about nature of fundamental particles. This theory also demands existence of 4th Pair of Neutrino-AntiNeutrino.



### **Biography:**

Yogesh Vishwanath Chavan had completed his Degree in Mechanical Engineering in year 2002 and currently working in Hindustan Aeronautics Ltd., Nashik Division from last 14 years. He has been working on this Theory from last 7-10 years in order to thoroughly understand the True Nature of the Universe from Particles aspect. With this Theory, definitely new era of science will begin for better future of Human kind.

#### Speaker Publications:

1. Yogesh Vishwanath Chavan. "Theory Of 3 Folds 5 Dimensional Universe"; International Journal of Advanced Research and Publications/20171;1.

7<sup>th</sup> International Conference on Applied Physics & Space Science; Webinar- August 17-18, 2020.

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