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Novel quantum gravity approach to evaluate the dimensionalities and the geometrical profiles of the chemical reactions

he current theories of Chemical Kinetics to a large extent, is unable to provide the true physical concepts regarding the physics and the dimensionalities (or the geometrical shapes) of the rates and rate constants, the order and the activation energies of the chemical reactions. The principal exercise made in this article is to utilize the definitions of time, mass, volume, EM -wave (electromagnetic wave) etc. of the recently discovered ' TOPOLOGICAL THEORY OF QUANTUM GRAVITY'(TTQG) and to analyse in the light of the said TTQG definitions of the physical variables (or the said gravitons), the physical parameters of the subject of Chemical Kinetics and chemical equilibrium. All the Chemical Kinetics' physical parameters get a different newer shape when they are being viewed in regard to 'time Graviton', 'mass graviton', 'volume graviton' and 'EM wave graviton' of the said QG theory. A QG theory concept driven new definition of Activation Energies of the chemical reactions has been given. This new definition of activation energy has led to develop a new mathematical equation which correlates the following 3 parameters:

> I) Order ii) Rate constant iii) Activation Energy or Activation volume

As of now no such correlation equation has been reported in the literature and also neither in any of the text books of Physical Chemistry or the literature explain the actual significance of 'order of reaction' or why is it at all being called, 'ORDER'? The geometrical profile of the chemical reactions of zero, 1st, 2nd, 3rd, etc. have been presented in the pictorial forms. This work is in fact an unification or blending of the logics and the philosophies of the traditional physical chemistry and the above said TTQG

Speaker Biography

Chinmoy Bhattacharya is a PhD in Polymer Physics from India in the year 1988. He then did his post-doctoral studies on Polymer physics of liquid crystals and is back to India in the year 1991; he joined paint Industry ICI INDIA LTD. He continued his research work on quantum gravity and theory of relativity and has recently come up with an altogether new unified quantum gravity theory. He has about 12 publications in Polymer national/international journals and his work on Cosmology, Theory Quantum gravity Dark Matter. He is a renowned person in India in the Field of Paints. He has having his own paint Industry in India and was the ex-chairman of IPA, the Indian Paint Association. He has invented a new initiator for free radical polymerization too and that work is published in UK journal (Royal Society Of Chemistry, Polymer Chemistry, and DOI: 10.1039/COPY00180E). He is a guest faculty of the university of Calcutta and teaching Color Physics, Polymer and dispersion physics and rheology of coatings to the Master students

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