

## Cosmology and Unified Quantum Gravity Theory of the universe

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### Abstract

An unified quantum gravity theory of the universe is discovered and being proposed which explores the true dimensionality of all the physical variables of the universe like energy, EM- wave, entropy, mass, time, temperature, gravitation, etc. and merges the “Classical Theory”, “Thermodynamics”, “Quantum Mechanics” and the “Theory of Relativity of Albert Einstein” under a single umbrella by a newly proposed mass-energy equivalence phenomena.

The proposed quantum gravity theory predicts that all the physio-chemical changes of the universe are controlled by the interactions of the different types of ‘GRAVITONS’ existing very much in the nature in the form of either ‘push-forward gravitons’ or ‘pull-back gravitons’. The push forward gravitons are directly related to entropy, force/temperature, energy, electromagnetic wave, space expansion, photoelectric emission, nuclear fission, X-ray, plasma state and super gravity. On the contrary, the pull- back gravitons are directly related to order, time, mass, inverse magnetic field, space contraction, permeability, nuclear fusion, gravitational collapse, the Black – Holes and the singularity.

The quantum gravity theory derived units and the Plank units for the 5 nos. of basic variables of the universe, i.e., time, temperature, Planck’s constant, mass and electric charge merge to the same point when the unified theory defined dimensions of Gravitation is utilized for this exercise. The ‘UNIVERSE’ has been proved as a 10 dimensional entity. The mechanism of formation of different types of ‘Black-Holes’ have been distinctly diagnosed and their geometrical shapes and thermodynamics have been explained. The conflict among the phenomena of ‘Information system’, ‘Black Hole evaporation’, ‘Event-Horizon’ and ‘Gamma-ray bursts of Black Holes’ of the existing theories have been fully removed.

The world storming ‘cold nuclear fusion’ phenomena has been established to be a real phenomenon of the universe and not an experimental artefact. The time (t) and the temperature (T) have been proved to be multiplicative inverse to each other and both being linked to the intermolecular forces. The dimensionality of energy and electromagnetic waves have been proved to be different and by a simple ‘Entropy-Energy Wheel’ wave model the Black Body Radiation curves have been explained.

Quantum mechanical wave equations (both time-dependent and time-independent) as proposed by Schrodinger merges to a

single universal wave equation, when the concepts of mass of the proposed quantum gravity ( QG) theory is utilized and applied on the said wave equations. The QG theory derived wave function,  $\psi$ , is an universal one and the dimensionality of the universe is explored from this universal wave function. A new theory of “COLOR PHYSICS” has been proposed in terms of ‘Color gravitons’. The dimensionality of ‘COLOR’ has been evolved, both in object and EM-wave.

The mystery of ‘GREY UNIVERSE’ (why the universe is grey in color?) and the ‘Newton Color Wheel’ and the ‘Spectral Power distribution of Black Body radiations’ have been shown to be interlinked to each other and all the said phenomena have been proved to be the outcome of quantized gravitation fields. The two universal parameter, ‘pi’ and the exponential factor ‘e’ have been proved to be the thermodynamic in origin and are related to the kinetic energies and the potential energies of matters of the universe respectively. The ‘pi’ parameter is shown to be a ‘space graviton’ and the so called photons are in fact the EM-wave gravitons and those have been proved.

The ‘second law of Thermodynamics’, the ‘Heisenberg’s uncertainty principle’ and the ‘Planck constant - h’ have been established as the same phenomena and related to ‘Entropy’. The inappropriateness of the quantum theory of Max Plank and the Theory of relativity, (both general and special versions) of Albert Einstein are revealed by the quantum gravity theory and the true root cause of Photo-Electric phenomena is also evolved.

A new “DIMENSIONAL COLLAPSE THEORY” has been put forward at the beginning of the article, to explain the subject of mathematical ‘integrations’ and ‘differentiations’ in context to theory of quantum gravity. The proposed theory reveals the all cosmic mysteries of the universe. This innovative quantum gravity theory will be of immense help to the Engineers of the world to design super power and super-efficient engines to drive the motor vehicles, Aero planes and Rockets.



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**Biography:**

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 came 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 7 publications in Polymer national/international journals and his work on Quantum gravity, Sub Atomic particles, Dark Matter and Dark energy are now to be published. He is a renowned person in India in the Field of Paints. He has 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. 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.

**Speaker Publications:**

1. C Bhattacharya. "Novel Quantum Gravity Approach to evaluate the dimensionalities and the Geometrical profiles of the chemical reactions". International Journal of Scientific & Engineering Research/ 2020;11: 4.

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