

ABSTRACTS OF THE 2008-BOOK

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UNIFIED THEORY
WITH REALISTIC FOUNDATIONS OF
SCIENCE & PHILOSOPHY

RATI RAM SHARMA

THE SHARMA THEORY

RATI RAM SHARMA

The Unified Theory (UT) (Upgraded & enlarged UNIFIED PHYSICAL THEORY, UPT) for the first time presents a single 'unified' alternative to the current theories of Relativity, Quantum, Quarks, Higgs, String, Supersymmetry, Electroweak theories, and goes beyond. The 'light-wave' exists in its propagating medium, the new *real 'sharmon medium'* (SM), as the 'basic substance', composed by the new particle '*sharmon*' named after this author (Sharma). Sharmon is made of two basic elements, positive *positrino* and negative *negatrino* called '*cosminos*' as they also compose all forms of mass (m), energy (E) and radiation in the Cosmos for their interconversions via. eqn. $E = mc^2$. UT has only two elements (positrino, negatrino), two basic charges (mass, electric) and two fundamental forces (gravitational, electromagnetic).

The space and time are mere abstract concepts evolving from our perceptions of successive motions & changes in the surroundings. Two abstracts cannot fuse into any concrete spacetime continuum that if existent would retard & prevent motions of heavenly bodies and even photon to propagate light through it, which is not actually observed. Therefore UT discards all multi-dimensional spacetime continua. The quarks theory with Supersymmetry has over 200 elementary particles none of which satisfies the definition of 'element' that composes others but is itself non-composite. In UT mass of a particle is its innate property. So it rejects massless and mass generating Higgs particles as flawed concepts. UT also rejects weak & colour charges; weak & strong forces and strings. Sharmon Medium explains bending of light due to gravity and results of Gravity Probes A & B. Constancy and invariance to source-observer motion of light velocity c (assumed but not explained by Special Relativity) as also observed variability of c (which invalidates Relativity) are explained. UT explains wave-quantum **unity** for radiation and matter, which Quantum Theory (QT) unrealistically splits into wave-or-quantum **dualities**. UT gives dynamic cosmino-sharmon compositions, free from the g and μ anomalies, of electron, proton & neutron. UT opposes QT's Uncertainty Principle, relativity's contraction of objective length due to observer motion, massless photon & neutrino. No Fermion is neutral.

Since redshifts do not increase exponentially with time, universe is NOT expanding. UT's Non-expanding Universe explains all observation, even on Ia type Supernovae. UT proposes new Principle of Null Action, molecular intelligence & molecular Homoeopathy, Science-Philosophy Symbiosis, new Intraspecies Evolution, showing descendance of man not from ape but man, &c.

Price: US \$ 50

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He can assume alpha & theta brain wave states at will as tested by Dr. Almer Green, past Director, Menninger Foundation, USA. Thereby completed the work & writing of Ph.D. (London) thesis in 7 months (June thru Dec' 68) after plan approval. His guide Prof. J.F. Fowler certified him as "definitely one of the brightest physicists working in Medical Physics anywhere in the world". He did B.Sc. (1952) and M.Sc. (Phys., 1954) of Agra Univ. from Meerut College. Got allround training in Nuclear Medicine at Hammersmith Hospital, London and started it for teaching, diagnosis, therapy & research at PGI in April 1969. Past President, Indian Acad. of Med. Phys., Soc. of Nuclear Med.(India), Assoc. for Scient. Res. in Homoeopathy and Chief Editor, J. of Homoeopathy of North India. He contested the 1990 Physics Nobel Laureates' claim of revealing non-composite quarks; compositeness of quarks predicted by him was experimentally confirmed in 1991. With his new Theory of Non-expanding Universe contested the basis of 2006 Physics Nobel Prize, supporting the not provable Big Bag theory. Observed Neutron's negative Electric Dipole Moment agrees with that calculated from his theory, supporting his prediction that no Fermion is neutral. His controlled drug trials on human patients, rats and mice established the efficacy of the high potency homoeomedicines with no molecule of the original drug, removing the perennial impasse created by Avogadro's law. To elucidate the science of Homoeopathy he proposed 3 new sciences of *Inductive Chemistry*, *Xenobiology* & *Inductoxenopathy*, also *Navayurveda*: a judicious mix of Homoeopathy, Allopathy & Yoga. For 1984-book Molecular Homoeopathy & these researches the Open Internl. Univ. for Complementary Med. awarded him D.Sc., M.D. (M.A.) and the 1989-Albert Schweitzer prize, also nominated him for the Nobel Prize in Medicine in 1996. He received the N. D. R. I., Karnal's Republic Day award on 26Jan'64. New Hope Seekers Society, Dehradun recognized on 12Jan'08 his contributions to Med. Phys. & Nucl. Med. with Nation Builders Award 2007. In his new theory of non-Darwinian intra-species evolution man has evolved from, not the ape but the molecular through zygotic and primitive man. He has guided several PhD, MD & MS theses and authored over 200 original communications and 8 books. Other theories proposed include Sharma Theory/Unified Theory, Principle of Null Action, Molecular Intelligence, Molecular Homoeopathy, Non-Darwinian Intraspecies Evolution, Gene inclusion & gene exclusion principles, Hook's law mediated nuclear force, unified basic force/field Gravitoelectromagnetic, symbiosis of Science & Philosophy, new Aanand Yoga.

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CHAPTER-1

THE STANDARD MODELS

Abstract: Currently ‘mainstream’ Gauge Theory gropes for experimental support to observe Higgs boson, which imparts mass to *massless* elements. Unified Theory has no conceptual ‘problem’ as the particle mass is innate. It explains observations which current theories cannot. Modern Standard Model (MSM) for the current theories of Physics & Cosmology with Supersymmetry has over 200 basic particles, four basic charges (mass, electric, weak, colour) & four fundamental forces (gravitational, electromagnetic, weak, strong) but Unified Theory (UT) has two elementary cosminos (+ve positrino, -ve negatrino), two charges (mass, electric) and two basic forces (gravitational, electromagnetic). Cosminos have diameter 1.6156×10^{-33} cm, mass 2.596×10^{-48} gm and electric charge $\pm 1.3729 \times 10^{-30}$ esu. MSM discards the physical space medium for light wave and uses 4, 5, 10, 11,... dimensional spacetime continua. Unified Theory rejects spacetime continua as non-existent and its real Sharmon Medium in space is composed by the new particle ‘sharmon’ made of a positrino & a negatrino. It propagates light and is the all-composing & all-pervading ‘basic substance’. Its inter-sharmon distance of $\sim 10^{-5}$ cm compares with Mean Free Path for the real gasses e.g. 1.12×10^{-5} cm for Hydrogen. It contains $\sim 10^{15}$ sharmons per cm^3 . Its density is 0.519×10^{-33} gm.cm^{-3} , viscosity 0.65×10^{-22} dyne.sec/cm^2 . In a universe expanding as Big Bang theory the cosmic redshifts should increase exponentially with time, which is not actually observed. So the universe is NOT expanding. Unified Theory’s non-expanding universe is real and explains even the ‘amazing’ observation on Ia type supernovae.

CHAPTER-2

A REAPPRAISAL OF THE EINSTEIN MODEL

Abstract: A wave exists only in its propagating medium but Einstein erred to discard the medium for light 'wave' and to introduce the 4-D spacetime continuum instead. It denied him the chance to address wave-quantum Unity of light and predict Unified Theory's new concept of 'basic substance' to compose all forms of E & m so compellingly demanded by $E=mc^2$, otherwise E & m could not interconvert. Unified Theory gives cogent arguments and convincing experimental support for the existence of a real physical medium in space viz. 'sharmon medium'. The non-substantive abstract concepts of space & time arise from the successive motions & changes in the surrounding objects and cannot fuse into any concrete spacetime continuum that if existent would retard motion of heavenly bodies, which is not actually observed. All spacetime continua of 4 to 32 dimensions are non-existent mathematical constructs and theories based on them unrealistic. The actual length of an object, viewed by say, 100 differently moving observers cannot undergo 100 different objective contractions at the same time, making 'contraction of length' an unrealistic concept. So is 'dilatation of time'. The real physical sharmon medium propagates light as a wave-quantum UNITY. The Unified Theory re-explains Photoelectric Effect, Bending of Light in a Gravitational field. It explains also the observed variability of light velocity which *invalidates* Relativity Theories. As against Relativity no particle or energy quantum is massless or sizeless point.

CHAPTER-3

SALIENT FEATURES OF THE UNIFIED PHYSICAL THEORY UPGRADED TO THE UNIFIED THEORY

Abstract: The space and time do not have substance, hence are not real entities. These are abstract concepts evolving

from the direct human perceptions of successive motions and changes in the surrounding objects, which we all receive from the very childhood. The two cannot fuse into any real 'spacetime' continuum to propagate light and gravitation. If existent the continuum would have prevented or at least retarded the motion of terrestrial and heavenly bodies through itself, which has never been observed. All the multi-dimensional spacetime continua are mere mathematical constructs bereft of any real physical existence and the numerous current theories based on them are unrealistic.

Diverse physical phenomena, for their explanation, currently require numerous theories of Physics and Cosmology. But herein upgraded Unified Physical Theory renamed as The Unified Theory based on a real physical 'sharmon medium' in space as the all-composing and all-pervading 'basic substance' and propagating the electromagnetic and gravitational 'waves' too, covers these phenomena singly. Medium's composing new particle *sharmon* is made of the two elementary *cosminos*: electrically positive *positrino* and negative *negatrino*. Cosminos have only two basic charges: mass & electric (+ve & -ve), and compose all forms of mass and energy in the cosmos.

The basic forces/fields are only two: gravitational & electromagnetic. The basic charges (mass & electric) unify into a single primal charge, the 'cosmino' itself and the basic forces/fields (gravitational & electromagnetic) into a single primal gravitoelectromagnetic force/field operating in the sharmon medium. The sharmon-cosmino compositions of electron, proton and neutron are worked out, which are free from the g & μ anomalies. The Unified Theory's new theory of non-expanding universe is more explanatory than the Big Bang and Steady State theories of expanding universe.

The Unified Theory (upgraded and enlarged UPT) elucidates scientific bases of Homoeopathy. During dynamization processes of preparing homoeomedicines the lone pair electrons of the oxygen atom of the $-OH$ groups in the molecules of the diluent solvent medium (lactose, water, ethanol) mediate the resonant promotion of diluent molecules to acquire and later mimic the chemical specificity of the

solute drug molecules. The new phenomenon of ‘induction of chemical specificity of the solute molecule in the solvent molecule by physical agitations of their mixture’ is discovered, which is supported by actual experimental observations. The high potency homoeomedicine with no molecule of the original drug contains plenty of the medicinally active diluent molecules and acts curatively without violating the Avogadro’s law and the Law of Mass Action.

A Science-Philosophy Symbiosis is presented wherein Unified Theory plays an important philosophical role.

CHAPTER-4

THE NATURE OF VACUUM & SPACE MEDIUM

Abstract: In 4th century BC Aristotle thought “Nature abhors vacuum”. In 17th century views vacuum could be created by removing all solids, liquids & gases and in 19th century by removing the radiation by cooling the space empty of all solids, liquids & gases. Einstein in 20th century dismissed any physical medium in space. In 21st century the real sharmon medium in space of the Unified Theory is irremovable by any means and so the absolute vacuum cannot be created. The 4-dimensional spacetime continuum is non-existent.

CHAPTER-5

THE BASIC SUBSTANCE & ELEMENTS

Abstract: An element composes other particles but it itself is non-composite. The basic substance composes all and it itself is composed by the basic element(s). The Modern Standard Model with Supersymmetry has over 200 basic particles but none of them satisfies the definition of ‘element’. Equation $E=mc^2$ compellingly needs a ‘basic substance’ composing all forms of E & m, otherwise E & m could not interconvert. The real *Sharmon Medium* propagating light is supported by cogent scientific logic and Dayton Miller’s observation of

positive ‘light-medium drift’. It is the all-composing and all-pervading ‘basic substance’ composed by the new particle ‘*sharmon*’, which comprises a positive *positrino* & a negative *negatrino*, the two basic elements named *cosmino*. Cosminos’ electric charge is $\pm 1.37 \times 10^{-30}$ esu; mass 2.596×10^{-48} gm & spin $\frac{1}{2}$. Sharmon’s mass is 5.192×10^{-48} gm, spin 0 & 1. Cosminos compose all forms of energy & mass, particles of matter & antimatter and energy-quanta. Mass of a particle is innate, not acquired from Higgs boson. An element is singly charged since multiple charges imply that many constituents. Cosmino’s single unified charge manifests as mass & electric charge via the mediation of gravitational and electromagnetic fields. No particle is massless or sizeless point; neutrinos have mass, size & electric charge. Cosmino compositions of quarks, leptons, neutrinos and photon are given.

CHAPTER-6

NATURE OF THE SHARMON MEDIUM

Abstract: Unified Theory’s real sharmon medium in space is supported by cogent logic and Dayton Miller’s positive observations of ‘light-medium drift’. It is composed by the new particle ‘sharmon’ comprising a +ve positrino and a –ve negatrino, the two elementary cosminos. The sharmon and cosminos compose all forms of mass, energy, particles of matter & antimatter and energy quanta. The sharmon with $\sim 10^{-33}$ cm diameter can pass through inter-atomic spaces in densest solid and between orbital electrons. As a kinetic gas, the sharmon medium is all-pervading and irremovable by any means, ruling out the creation of absolute vacuum. Its number density is $\sim 10^{15}$ sharmons per ml, mass density 0.519×10^{-33} gm.cm⁻³, shear elasticity 4.6875×10^{-12} dyne/cm² and viscosity 0.65×10^{-22} dyne.sec/cm². It propagates electromagnetic & gravitational signals. Its inter-sharmon distance of $\sim 10^{-5}$ cm compares with Mean Free Path for the real gasses e.g. 1.12×10^{-5} cm for Hydrogen. Creation & annihilation of $e^- e^+$, particle-antiparticle pairs are explained.

CHAPTER-7

NATURE OF THE ELECTROMAGNETIC FORCE, FIELD, WAVE & RADIATION

Abstract: A single experiment shows *wave-quantum* unity for the low intensity light and for moving electrons. Special Relativity & Quantum Theory, the two major current theories of light stand apart because the authors of both were admittedly unclear about the intrinsic wave-quantum unity of light and the medium propagating the light wave in space. In Unified Theory the electromagnetic radiation including light is propagated in the sharmon medium as a wave-quantum UNITY as opposed to Quantum Theory's wave-or-quantum DUALITY. The 0-spin sharmon-packet energy *quantum* per unit frequency cycle is propagated along a transverse electromagnetic *wave in sharmon medium* contiguously via 1-spin sharmons, which do not physically move but provide a physical carrier. The propagating 1-spin sharmon returns to its 0-spin state on transferring the wave energy quantum to the contiguous neighbour in the medium and finally to the target. *The 1-spin photon as such is not emitted, absorbed or propagated.* Energized 1-spin sharmon replaces the 1-spin photon, which with conventional properties does not exist. The time-containing and time-free wave equations propagating wave-quantum unity of radiation and matter (unexplained in Quantum Theory) are derived. Photoelectric effect, Compton scattering and interference of light are re-explained and Maxwell equations re-deduced.

CHAPTER-8

NATURE OF THE GRAVITATIONAL FORCE, FIELD, WAVE & RADIATION

Abstract: Newton discovered the law of universal gravitation in 1665 after observing the fall of the legendary apple. Einstein's General Relativity in 1916 linked the gravitational

field with the curvature of, and gravity waves with the ripples in, the 4-dimensional spacetime continuum. In Unified Theory the gravitational mass of the sharmons mediates the gravitostatic force and field, which operate within and through the sharmon medium. Every mass body interacts with the surrounding sharmon medium and through it with all other bodies. Wave-quantum unity of dynamic gravitational field propagates in sharmon medium. Relativity eqn. for bending of light in a gravitational field is re-deduced.

CHAPTER-9

UNIFICATION OF THE FUNDAMENTAL FORCES & FIELDS

Abstract: An element, being non-composite, should have a single charge to give it isotropic properties throughout its whole. Multiple charges imply that many constituents and attraction among them is anti-intuitive. Cosmino's mass & electric charge inseparably unify into itself. The primal unified gravitoelectromagnetic force/field manifests as gravitational & electromagnetic force & field by feeling and being felt by the manifested mass & electric charge in the unified charges of the cosminos composing the sharmons in the sharmon medium. The electromagnetic and gravitational waves have same velocity since the mediating cosmino charges (electric, mass) are inseparable. Effect of superimposed magnetic field on neutron's negatron decay is explained without Electroweak Theory's weak charge and W^\pm & Z^0 particles. The gauge principle, propagation of $1/2$ -spin neutrino, Dirac eqn. & Klein-Gorden eqn. are explained.

CHAPTER-10

A REAPPRAISAL OF RELATIVITY THEORIES

Abstract: The non-substantive space & time are abstract concepts evolving from our perceptions of the successive

motions & changes in the surroundings. These two abstracts cannot fuse into Relativity's concrete 'spacetime' continuum, which is non-existent. The Lorentz formulae do not describe any natural motion since no real velocity can at the same time vary (like v) with, and be invariant (like c) to, the source-observer motion. So 'contraction of length' & 'dilatation of time' derived from them are unreal. Moreover, no natural event observed by 100 differently moving observers can undergo 100 objective changes in length & time intervals simultaneously. The Unified Theory's real sharmon medium in space is supported by cogent logic and Dayton Miller's positive observations of 'light-medium drift'. It, like Relativity, re-explains constancy and invariance to source observer motion of c . And the observed variability of c , which invalidates Relativity, is also consistent with Unified Theory.

CHAPTER-11

A REAPPRAISAL OF THE QUANTUM THEORY

Abstract: Heisenberg argued that wave and particle are too exclusively different in properties, making the intrinsic wave-quantum unity of light impossible to visualize and describe by the language. He invented mathematical Quantum Theory to circumvent visualization and inadequacy of language. But mathematics too is a language to supplement description. He used it to superimpose hidden unrealistic concepts leading to the Uncertainty Principle. In Unified Theory the wave & particle aspects of electromagnetic radiation and moving material particle coexist blended together as wave-quantum UNITY. This is also supported by experiments. The wave-or-quantum DUALITIES of Quantum Theory appear due to experimental limitations to observe only one and not both of the two aspects simultaneously. Conservation of mass & momentum are inviolable. Matter's creation from, or dissolution into, 'nothing' is unrealistic. So the Heisenberg's Uncertainty Principle is rejected as unrealistic and new Principle of Null Action with universal applications is

introduced. The Copenhagen interpretation of Quantum Theory is reappraised critically.

CHAPTER-12

A REAPPRAISAL OF THE RELATIVISTIC QUANTUM ELECTRODYNAMICS

Abstract: Current mathematical theories allow tinkering with physical concepts, not with mathematics. Non-composite elementary particle like proton or neutron is therefore taken as sizeless point so that an electric force is transmitted throughout its whole instantly, without having to move faster than light. A material particle like neutrino & energy quantum like photon moving at light velocity is taken as massless so that its kinetic energy is not infinite. But for Unified Theory mathematics is only a language to supplement description and NOT to tinker with or supplant physical concepts. The mathematics not consistent with the related physical concept is not Physics but anti-Physics. So in Unified Theory no material particle or energy quantum is sizeless point and/or massless. It explains the hydrogen Lamb shift and also the anomalies due to gyromagnetic ratio (g) and magnetic moment (μ) of electron, proton and neutron.

CHAPTER-13

COMPOSITION-STRUCTURE OF BASIC PARTICLES STRONG NUCLEAR FORCE IS REDUNDANT

Abstract: An element is non-composite but composes other particles. The elementary quarks & leptons of the Modern Standard Model are found to be compressible and assembleable, hence having composition. These in Unified Theory are composed by two elementary cosminos: positrino & negatrino. Cosmino-sharmon composition-structures of electron, proton and neutron presented for the first time are

defined by concentric regions and Form Factors for spatial distribution of constituents. It is shown that no Fermion can be neutral. Electric Dipole Moment of neutron calculated from Unified Theory agrees with observations. An almost neutral neutron emits electron, never positron, because its outer region is negative. Hofstadter's positive outer region in neutron is inconsistent with negatron decay. A new Hook's law mediated short-range nuclear force is suggested.

CHAPTER-14

THE THEORY OF THE NON-EXPANDING & NON-CONTRACTING UNIVERSE

Abstract: In a universe expanding as per the Big Bang or Steady State theory the cosmic redshifts should increase exponentially with time, which is not actually observed. So universe is NOT expanding. In the non-expanding universe the total energy-mass content is eternally conserved with NO 'initial creation of matter from nothing' in a single big explosive event of the Big Bang theory or continuously as in the Steady State theory. The cosmic redshift is caused, not by Doppler effects of receding velocities of stellar light sources in an expanding universe but, by depletion of photon energy during long passage through the sharmon medium due to non-Doppler effects of gravitational, electromagnetic & viscous losses. Unified Theory's predicted Hubble constant agrees with observations. Cosmic microwave background follows naturally. A plausible explanation is given to the observation on Ia type supernovae, which has amazed & horrified the astronomers. There is no antigravity force permeating space and no likelihood for the universe to become empty ever in future. Halton Arp's observations on the 'ejection of galaxy companion' are explained. Dark energy and dark matter are related to the Sharmon medium. Initial creation of material particles & radiation is outlined.

CHAPTER-15

A REAPPRAISAL OF THE STRING THEORIES

Abstract: String Theory combines the basic concepts of quantum mechanics, particle physics and general relativity alongwith their conceptual inadequacies. It uses 10-dimensional spacetime continuum, which in Unified Theory is non-existent. The basic constituents are assorted strings of zero thickness and 10^{-33} cm long. Quantum numbers of the vibrational mode of the string deduce physical parameters like mass, charge and spin of the test particle. But it is inconceivable for a string with zero thickness to exist and vibrate! The Membrane Theory uses 11-D spacetime and membranes of zero thickness. It postulates a Membrane Bang before the Big Bang. The String & Membrane Theories have never been tested. String Theory is silent on what composes the strings and what is it that vibrates. It claims to be the unifying theory of everything but the application scope of the Unified Theory is much wider. When asked its expert does not answer why time arrow moves only forward and never backward; the Unified Theory explains it.

CHAPTER-16

PRINCIPLE OF NULL ACTION

Abstract: Quantum Theory's Uncertainty Principle violates conservation of energy & momentum and invokes matter's *unrealistic* creation from, and dissolution into, nothing. In Unified Theory action is an evolute of sharmon with Planck constant h as its quantum. The inviolable conservations of energy and momentum ordain conservation of action, invalidation of the Uncertainty Principle and introduction of the new Principle of Null Action. It has universal applications and is conceptually superior to the old Hamilton's Principle of Least Action as the latter unrealistically associates turnover of action with *constant* energy & momentum.

CHAPTER-17

MOLECULAR HOMOEOPATHY

Abstract: Homoeopathy's therapeutic art has stood the test of over two centuries but its science remains unrecognised and beyond contemporary Sciences. Three new sciences of *Inductive Chemistry*, *Xenobiology* & *Inductoxenopathy* are proposed to elucidate its scientific bases. Double Blind Drug Trials and their Meta-analyses cannot test Homoeopathy because these are not consistent with the homoeopathic philosophy & concepts of disease, diagnosis & cure. The efficacy of its high potency medicines having no molecule of the original drug in the patient dose is established by controlled drug trials on rats, mice and human patients, who served as their own controls and under the scientific Allopathy were diagnosed as incurable, difficult-to-cure even with long treatments, or required surgery. This removes the perennial conceptual impasse created by Avogadro's law and the Law of Mass Action. A new physical basis of the molecular chemical specificity is proposed. New scientific phenomenon of the induction of chemical specificity of the solute molecule into the molecules of diluent medium via physical agitations of the homoeopathic dynamisations is discovered. WHO-concepts of health & health-care are improved and cure of some incurable diseases demonstrated. The new unified therapeutics *Navayurveda*, comprising judicious combination of Homoeopathy, Allopathy/Ayurveda, Yoga is proposed. Potency considerations are rationalized. Newly proposed mellestial potency (m) produces 1000-times dilution at every step of dynamization. The critics of Homoeopathy, like this author, will take a U-turn in its support when they personally experience the clinical advantage of Homoeopathy over scientific Allopathy.

CHAPTER-18 SYMBIOSIS OF SCIENCE & PHILOSOPHY

Abstract: Cogent scientific logic makes the conceptual foundations of Science & Philosophy realistic and establishes eternally existing all-composing & all-pervading pantheistic cosmic entity like *Brahm* of Adwait philosophy.

The Einstein eqn. $E=mc^2$ compellingly needs Unified Theory's 'sharmon medium' as the *basic substance* to compose all forms of energy E & mass m otherwise E & m cannot interconvert. The all-composing sharmon medium pervades all space and all physical bodies in the universe because the sharmon with $\sim 10^{-33}$ cm diameter can pass through the inter-atomic space even in the densest solid and between the orbital electrons of any atom. Sharmon comprises two elementary cosminos: +ve positrino & -ve negatrino. Sharmon has 0 or 1 spin and is a quantum of intelligent consciousness. The 'matter' and 'mind' unite and unify as manifestations of the corresponding innate and inseparable attributes of the sharmon. The electric charge and mass of cosminos composing the sharmon relate to the manifestation of matter in the universe and the intelligent consciousness of Sharmon to that of mind and intellect. The eternally conserved most basic total cosmic substance constitutes an eternally existing 'primordial cosmic body', the '*Megovum*', meaning the 'big egg' for mega (extremely big) and ovum (egg) as it gives rise to all in the Cosmos including, but not limiting to, this perceptible material universe. The megovum, like the *Brahm* of scriptural philosophies, does not originate or come from anywhere but has always existed in the entire past and will always exist in future. Intelligent sharmons turn the Megovum as also the all-intelligent *Megamind* managing the Cosmos with inviolable basic laws, rejecting the Quantum Theory's Uncertainty Principle. The resting megovum comprises 0-spin sharmons only. So it is imperceptible and has no motions & changes while universe is perceptible and has all sorts of motions & changes. See many more interesting topics discussed.

Appendix-4

Text of the interview given by Prof. Dr. Rati Ram Sharma to the Press Trust of India on November 4, 1990. It was globally reported in the electronic & print media.

Appendix-5

NON-DARWINIAN INTRASPECIES EVOLUTION

ABSTRACT: The 'genome organization' is not random but follows two guiding principles. The 'gene inclusion principle' decides on the inclusion of permanent genes, which determine and specify various species. These are the 'central' genes, which every one and all members of a species have in fixed positions unchangeably. According to the 'gene exclusion principle', however, no two of the billions of members of a species can have the same identical 'gene group' in the given position(s). These define the intraspecies diversity. The vestigial organs arose from the corresponding *normal* genetic expressions rather than from the lack of their use or utility. Man never had a tail and will never lose the unutilized pubic & axillary hairs because his genome so provides. The present man has not descended from the ape through Darwinian interspecies evolution but from primitive man himself through intraspecies evolution.

Appendix-6

Press Statement dated 10th October 2006 contesting the basis of the 2006 Physics Nobel Prize

Appendix-7

Press Statement dated 15th September 2008 doubting the success of the Large Hadron Collider experiment

**WILL LHC SUCCEED?
THE DISTURBING TRUTHS ABOUT LARGE HADRON
COLLIDER**

Appendix-8

**Email to the Secretary, Nobel Committee for Physics
raising questions about the Nobel Physics Prizes**

8 October 2008

Appendix-9

AANAND YOGA : The Immanent Meditation for all

Abstract: This author has been practicing Aasan, Praanaayaam and Meditation since 1945 and can assume alpha and theta brain wave states at will as testified by Dr. Elmer Green, Director, Menninger Foundation, USA. With this Yoga ability he solved three outstanding problems and completed the work and writing of his PhD(London) thesis in 7 months after plan approval. For the benefit of others a simple yet effective mode of meditation, the Aanand Yoga, is described, which combines the merits of 5 popular techniques, namely the Gita Yoga of Lord Krishna, Vipashyanaa Yoga of Lord Buddha, Vishvaas Yoga of Swami Vishvaas, Transcendental Meditation (TM) of Maharishi Mahesh Yogi and ancient Paatanjali Yoga.
