

Chapter One

The Mysteries of Existence and Creation

Hubris, Hyperbole and Humbug in Ontological Phantasies of Physics

It is wrong to think that the task of physics is to find out how Nature is. Physics concerns what we can say about Nature.

Niels Bohr [CC]

In discovering that everything is made of atoms, **modern Physics has solved the “Mystery of Existence”**. Thus spoke Professor Jim Al-Khalili, an Anglo-Iraqi physicist, at the start of his 2007 BBC television (TV) series *Atom*. He also proclaimed that, in discovering how heavier atoms are made in stars and supernovae and that much of the helium was created with hydrogen in the Big Bang, **Physics has also solved the “Mystery of Creation”**. Furthermore, in discovering the radioactive transmutation of elements, al-Khalili added, physicists were the first true “alchemists”. He admitted that Consciousness still remained a mystery but assumed that Consciousness posed no problem for the Atomic metaphysics; it was, he asserted confidently, a mystery related to amazingly complex arrangements of atoms [1]. To be fair to Professor al-Kalili, he was only voicing publicly a view held widely amongst scientists and such hyperbolic claims are made regularly for pet theories by scientists presenting TV documentaries.

In 2008 the world’s media reported the start-up of the Large Hadron Collider (LHC) at CERN (the European particle physics research centre) with apocalyptic headlines about the possibility of planet-destroying black holes appearing in recreating conditions similar to the (supposed) Big Bang^{NI}. The pseudo-intellectual journalists displayed their staggering ignorance by regurgitating the sensationalist claptrap of semi-educated scientists that the so-called Higgs Boson (posited to account for *mass*), which they hoped to prove the existence of using the LHC, being the **“God Particle”**. Again in 2012, the media has been spouting this specious “God Particle” gobbledegook given the claim by CERN to have detected this boson (a term derived from the name of Bengali physicist S.N. Bose). In this age of secular, Materialist myth-making this is the nearest Science has come to gazing upon the face of the Creator. The British media fails to point out that Belgians Englert and Brout actually predicted the existence of this mass-imparting Bosonic-field, before the Briton Peter Higgs [LS].

We are told repeatedly by the Materialists that these fundamental particles are like the **'building blocks'** of the universe. We shall see that, in reality, the supposed individual fundamental particles (the modern equivalent of Democritan *atoms*), are actually superficial phenomena (appearances), abstractions or mental constructs and not ultimately real, nor distinct 'atomistic' entities as presented by al-Khalili and mainstream Physics. Referring to the Higg's Boson the 'God Particle' is worse than just putting an eye-catching, hyperbolic spin on media presentations of science which the general public otherwise finds boring. It is a shameless display of ignorance by pseudo-intellectuals in regard to the true source of the notion of a Creator God related to the notion of Divinity. This true source is the **Divine** (or **Uncreated**) **Light** (*a.k.a.* the Godhead, *cit* or Pure Consciousness, *Atman*, Buddha Nature, *al haqq* or The Reality, *Sofia* or the Cosmic Light of Wisdom, the Inner Light of Conscience, the Christ, the Holy Spirit, the Philosopher's Gold, the Holy Grail, the Fount of all Wisdom, the Water of Life etc.).

In the first episode of his 2004 BBC TV Series *Light Fantastic*, Cambridge Historian of Science Simon Schaffer claimed that Divine Light was an ancient myth which had been discredited by Newton's work on Optics. When I saw this programme (repeated in 2010), I emailed the BBC to complain, both about Schaffer's peddling of Eurocentric myths about Greek culture supposedly dominating India but also his myth that Divine Light was myth (I could not find Schaffer's email as he was on Sabbatical). After all I had identified its physical correlate with a well-established brain process known to all Medical doctors and this correlation was supported by overwhelming evidence based on authoritative Hindu and Buddhist yogic knowledge as well as the limited scientific studies of Enlightenment. Schaffer's Producer at the BBC, an Anne Laking, read my evidence and then read the draft versions of the early chapters of this book which I had posted on-line in 2009. She emailed me back to say that she had ordered my 1999 book, *The Oneness/Otherness Mystery: The Synthesis of Science and Mysticism*, in which I first presented this knowledge and that she would show the book to her colleagues in the BBC Science department.

But as with my old Course Supervisor Professor Lorna Casselton, who was the Vice-President of the Royal Society when I visited at the Royal Society to tell her about my work in 2009, I will get no publicity through such contacts. This is because to acknowledge publicly the validity of my Physical correlate of the Divine Light or Pure Consciousness (which is beyond all reasonable doubt given the overwhelming evidence supporting it) is to acknowledge the fact that the Physicalist Ontology of

Modern science is false. Furthermore, my identification of the physical correlate of the so-called Godhead, *al haqq* or Holy Spirit also undermines the Dualist mythology of Theistic religions which peddle superstitions about the complete Otherness of God from Man! It also undermines the false mythology believed by most New Agers that Enlightened mystics are some sort of ‘leading shoot’ of a new more highly-evolved form of human being.

We shall see that, regardless of the confident assertion of orthodox scientists that their theories describe actual Reality, extremely simple epistemological analysis reveals that the so-called ‘**physical universe**’ of modern science is a false ontological picture. The “Physical Universe” of modern Science can only exist in the imagination of self-deluding Materialist (or Physicalist) believers. We are told that the LHC is recreating conditions that supposedly pertained very shortly after the ‘Big Bang’. In fact the so-called ‘Big Bang’ hypothesis is far less certain than the scientific establishment PR would have us believe, given the evidence which seems to contradict it, threatening to burst the “Hubble bubble” dogma. Such evidence is suppressed by orthodox science and its proponents usually dismissed as misguided ‘heretics’. This includes extensive X-Ray telescope evidence gathered over decades showing that highly red-shifted quasars are clearly associated with low-red-shift, nearby Seyfert galaxies. This contradicts the orthodox view that increased red-shifting is correlated with increasing distance from the Earth upon which the notion of the expanding universe originating in a ‘Big Bang’ is based [HA].

Contrary to the popular misconception rehashed by al-Khalili, true Alchemy did not aim at transmuting metals like Lead into Gold but transforming the base, mundane mind of the Alchemist into the “**philosopher’s gold**”, developing the True Self, to lead out the ‘gold’ within [G&H157]. These were symbolic terms referring to transformation of the mundane mind of the alchemist into the Divine Light, a spiritual transmutation. The first known Alchemical (Hermetic) Text was by the 4th Century *c.e.* Graeco-Egyptian Zosimus of Panopolis who was a mystic associated with the Empedoclean-Pythagorean tradition [PK]. The Greek deity Hermes (Roman Mercury) was a symbolic reference to the mercurial, ‘quicksilver-like’ flowing quality of the Spirit (Divine Light) and its role as the Messenger between Heaven and Earth. Zosimus wrote:

For those who wish to save and purify the divine soul which is bound in with the four elements, or who seek to rescue the divine Pneuma from out of the body, a symbol of chemistry may be deduced from the Cosmogony,...[P&M173].

Alchemy came to Europe via Moorish Spain as Islamic ‘Hermetica’. Some spiritually ignorant medieval Western alchemists took the texts literally, projecting such mystical transformation onto the natural world. Eventually alchemists like Paracelsus realised the error [GTL]. True alchemists looked down disdainfully upon the deluded trying to produce metallic gold with their bellows etc. calling them ‘puffers’[FY]. We shall see that, contrary to orthodox histories of Science, the rise of modern Natural Philosophy (today’s Natural Sciences) owed more to Magic (Occultism) than to Logic. Isaac Newton, himself deeply involved in Alchemy, distinguished the “vulgar chemistry” of the common chemists relating to ‘grosser’ particles of matter bringing about sensible changes and the more subtle, secret and noble, vital subtle matter diffused through the mass, the ‘tender spirit’ [BJD]. Medical psychiatrist Anthony Stevens [AR] tells us:

The post-Renaissance view of alchemical purpose is a travesty, a base projection of our own barren spirit; what he wanted was not so much to enrich his coffers as to transform his soul. In order to acquire the ‘golden understanding one must..., observing and contemplating by means of that inner light which God has lit in nature and in our hearts...

Nobody who is familiar with the dynamics of Consciousness and mental states as experienced in Mindfulness Meditation (which, following Edmund Husserl, modern Westerners call Phenomenology), with their characteristic wholeness or Gestalt quality and intensive (rather than extensive or spatially exclusive) mutual interpenetration, would think that mental phenomena are made of discrete impenetrable atoms. Distinguished French physicist Bernard d’Espagnat argues correctly in his recent book *On Physics and Philosophy* that the Democritan notion of ultimate particles or ‘Multitudinism’ (the view that Reality consists of many discrete elements) is no longer a tenable ontological perspective even though most physicists still cling to the old ‘Galilean ontology’ [BdE]. Contrary to the popular image of tiny particles whizzing around particle accelerators, there are in fact no moving elementary particles which can be followed as individual entities from one location to another.

Nonetheless, in the plaza outside the CERN building in Geneva, stands a human-size statue of the Hindu deity Shiva in the famous *Siva Nataraj* posture, dancing within a fiery ring. On the plinth below are inscribed two quotations from famous Anglo-Sri Lankan scholar Ananda Coomaraswamy

and from Fritjof Capra [PG], the physicist whose 1975 pop philosophy book *The Tao of Physics: An exploration of the parallels between modern physics and Eastern mysticism* became a bestseller:

It is the clearest image of the activity of God which any religion can boast of.

Ananda Coomaraswamy [PG]

In our time, physicists have used the most advanced technology to portray the patterns of the cosmic dance. The metaphor of the cosmic dance thus unifies ancient mythology, religious art and modern physics.

Fritjof Capra [PG]

In her 1981 essay *Meaning and Order* [P&M] Marie-Louise von Franz, a close friend of the great physicist Wolfgang Pauli, wrote:

The God of modern physicists resembles more the God-image of Hinduism, or generally of the Far East, and has been, as Ruyer points out, actually influenced by it.

We shall see later that even Fritjof Capra, like many others, has reduced Eastern mysticism erroneously to Materialism (Emergent Materialist ‘Systems’ mumbo jumbo). We shall see below that the ancient Indian texts known as the *Upanisads* constituted the world’s first conceptual philosophy. Indeed, the Greek Theory of the Elements was a corrupted form of the Indian *panch bhuta* (five spirits or five elements) found in the *Upanisads*. In one famous cosmology from the *Upanisads*, which developed into the Tantric Philosophy of Hinduism and Buddhism, the first created element was **Akasa (Space as subtle matter characterized by vibration – or ‘Ether’)** [SR-PU]. It was through the progressive vibratory densification of *Akasa* that the elements which we perceive as types of matter were created. This parallels the deeper metaphysical understanding of modern Physics as we shall see. In fact the famous AUM symbol of the *Mandukya Upanisad* represents both the Four States of Consciousness (a model which we shall see still retains scientific validity) as well as the Vibratory Creation of the Universe. We shall see that 21st Century Physics, Mathematics, Cosmology and Cognitive Science/Psychology are more in tune with ancient Indian Brahmanic-Buddhist philosophy than with the myths of the Ancient Greeks hyped up by Eurocentric Westerners in their Racist ‘Classics’ as if they had created all Philosophy and Sciences.

In the preface to his *Toward a Global Science*, Susantha Goonatilake says that a pervasive Eurocentric bias guides today’s dominant perspective on Science. He notes that atomic ideas appeared in India before they appeared in Greece and were associated with Pakudha Katyayana, an older

contemporary of Buddha [SG]. I would add that some Ancient Indian atomic theories involved ‘atoms’ flashing in and out of existence; in fact such views accord better with modern Quantum Theory than Democritan atoms moving in a supposed vacuum of space. Note that the concept of space as empty of substance was created by Democritus in order to allow the supposed atoms to move. This pervasive Eurocentrism is seen in the Western academic fabrications regarding Ancient Greek philosophers being proto-modern ‘scientists’ when in fact most of them were actually shamanic healers, occultists and mystics concerned with escaping the Wheel of Transmigration etc. Cicero wrote of Democritus, who believed in Dream Telepathy, that he never knew of anyone who talked nonsense with greater authority [DRad/EM].

As with Kepler, Newton and many other fathers of modern Science and of 20th Century Quantum Physics, the occultist and mystical interests linked to their scientific work have been airbrushed out of History. Francis Bacon studied paranormal psychic phenomena and their study was one of the first uses he proposed for the new Natural Philosophy [DR/EM]. Similarly Giordano Bruno was actually obsessed with Hermetic Occultism (Alchemy, Cabbala etc.), Numerology and Astrology. He has been misrepresented as a mathematician (rather than numerologist) and a martyr for modern science as he championed Heliocentrism, a notion that long preceded Copernicus. Bruno was burnt at the stake, not for scientific views but for his occult practices! Bruno, like Copernicus himself, actually adhered to Heliocentrism on mystical grounds and Copernicus quoted the mythical Hermes Trismegistus in regard to the Sun as the visible god, reflecting the mystical sun (Inner Light) [FY]. We shall see later that Europe’s Financial and Scientific Revolutions was preceded by medieval Europeans translating Hindu mathematics and astronomy, which included Heliocentric models, centuries before Copernicus’s supposed ‘Revolution’. One thousand years ago, prior to the Mohammedan conquest of Northern India, Hindu India was acknowledged by the Arabs as leading the world in Science. Indeed, contrary to Western racial fantasies presented as ‘History’, the Scientific Revolution was largely based on Hindu not Greek mathematics and it was such Hindu influences that actually led to Atomism becoming acceptable again in medieval Arabia and Renaissance Europe.

The great physicist Erwin Schrödinger, whose wave mechanical Schrödinger Equation lies at the heart of modern Physics, was himself an advocate of the *Advaita Vedanta* (Nondual Brahmanism) metaphysics derived from the *Upanisads*. He never accepted the notion of actual particles. In his *The Interpretation of Quantum Mechanics* he stressed that there are no individual particle trajectories in

Quantum Mechanics (QM), i.e. particles do not exist except in relation to our measurements [ES], implying a collective (delocalized) wave existence [CM]. He considered Quantum waves to be as real as water waves, they were **matter waves** propagating continuously in space [SM]. In his *The Nature of the Physical World*, the great astrophysicist Arthur Eddington depicted Schrödinger's Wave Mechanics as a sub-aether oscillating with ripples a million times faster than those of visible light, too fast to come within the scope of our gross experience. What we humans can appreciate (or abstract) is a disturbed area created by the convergence and coalescence of waves which we think of as a material particle such as an electron [AE]. The earlier Matrix Mechanics invented by Werner Heisenberg was merely a calculational tool with no conceptual model behind it [SM]. Heisenberg himself wrote in 1955 that that it is not possible for us to return to the ontology of Materialism (meaning the old Classical notion of particles whose trajectories we can follow through space) [PST].

Furthermore, *contra* al-Khallili, it is rather obvious that the Big Bang hypothesis doesn't really solve the Mystery of Creation as it offers no explanation as to the source of all this energy, along with expanding space-time which supposedly just burst into existence out of nothing [i.e. magically] some 13-14 billion years ago. In fact, as we shall see, modern Materialist Science is the disaffected child of Christian and Greek mythology with roots in the Christian anthropomorphic myth of *Creatio ex nihilo*. This involves the Christian God, resembling a male human personality, creating the Earth, Sun, Moon and seven planets (the entire Christian universe) out of absolutely nothing (not some pre-existing substance). Something out of Nothing implies Magic usually framed as the miraculous power of the omnipotent Creator for whom nothing supposedly is impossible. In putting forward notions such as there being supposed "Laws of Nature", existing independently of material Nature, the founding fathers of modern Science (in particular Isaac Newton) were explicitly assuming that this myth was true and that a man-like Creator God, resembling a human "sovereign" or a Roman emperor, laid down the rules specifying the mechanical (like clockwork) operations for the inert, inanimate and insentient material Nature that He had created miraculously out of nothing. Due to such tacit Christian roots, modern Physics comes full circle and presents us with an unsatisfactory, magical *Creatio ex nihilo*, which furthermore, completely ignores the fact that our existence is sentient and primarily has a conscious or spiritual aspect.

Professor al-Khalili assumed that the mystery of Consciousness posed no problem for Atomic metaphysics (i.e. Materialism), it was simply a problem due to the immense complexity associated with

atoms organized into brains. If we examine such questions impartially, we will see quite clearly that Physics, including QM, actually has no explanation whatsoever for the existence of the most basic fact of our existence, the fact that we are conscious of existing. This Spirit/Nature (Consciousness/Matter) dichotomy stems from the Christian concept of insentient, inanimate Nature resulting from *Creatio ex nihilo*, a doctrine also held by Jews and Mohammedans [actually originating with the Persian mythmaker Zoroaster]. Even Isaac Newton, who stressed the inanimate picture of matter to retain his theistic God as the Prime Mover and Upholder of the Laws [MJ], noted the glaring logical error in Galileo's doctrine of Primary Qualities which removed subjective qualities from supposed Reality leaving behind just quantities [EAB]; a view that was famously opposed by Alchemists like Robert Fludd [FY]. Simple epistemological analysis reveals that Consciousness, as conscious intuition, is presupposed in the supposedly self-evident primary definitions of Physics just as it was presupposed in the axioms of Frege and Russell in their failed attempts to reduce Mathematics to Logic.

All Materialist or Physicalist approaches to the problem [except the ludicrous Eliminative Materialism of Richard Rorty and Patricia Churchland which denies its existence] tacitly presuppose the existence of Consciousness even though it has been precluded right at the very start of Natural Science. Thus Materialist or Physicalist speculations about it, including the countless papers churned out by most modern Western 'Philosophers-of-Mind' on Consciousness (as Awareness), are no more than vacuous sophistry, presupposing surreptitiously the very Consciousness they seek to explain. Such sneaking in of Consciousness into the insentient 'physical universe' of Natural Science, using 'sleights-of-tongue' to disguise the desperate appeal to **a magical creation of Consciousness *ex nihilo*** (usually labelled '**Emergence**'), is the dominant approach amongst most contemporary Western 'Philosophers of Mind'. Blinkered by Scientism, they peddle this tacitly Dualist, magical Emergent Materialist mumbo jumbo. Simultaneously they parade their supposedly scientific credentials by regurgitating the latest fashionable jargon from 'Cognitive Science' whilst demonizing opponents of Physicalism as believers in mysticism who don't understand Science!

The orthodox reviewers then heap praise on these supposed 'philosophers' for having reaffirmed their Faith in the official dogma of Scientism. Given the tacit Physicalist appeal to 'magic', it was amusing to hear that High Priest of Scientism, Daniel C. Dennett, describing himself at one of the Toward a Science of Consciousness conferences held at Tucson in the 1990s as feeling like a 'cop' (policeman) amongst the New Age aging-hippy types. In fact it was not the old drop-outs and dope-

heads but Dennett himself who was the dope suffering delusions of grandeur as the average New Ager's understanding of Consciousness was far more realistic than his dim-witted, cop out appeals to the (supposed) authority of Physical Truth!

Furthermore, the Physicalist ontology presents us with the (originally) God-given Laws of Nature, nowadays treated as 'transcendental' (i.e. extraneous to the intrinsic nature of matter) and hence supposedly inexplicable. Some do try to account for them using pseudo-ontological modern myths like the brazenly tautological Anthropic Principle; (the Laws and constants have the forms and often extremely precise values they have as, if they didn't, there could be no evolution of Life and Mind in this universe to look back and discover them). We even find well-known scientists, usually apologists for Christian and Jewish Monotheism associated with the Templeton Foundation, using the supposed paradox of the unexplained and remarkably precise values of the (supposedly) universal physical constants to reintroduce their neo-Christian 'God-of-the gaps' (i.e. an anthropomorphic God concept filling in the lacunae in understanding resulting from the failings of Physicalist ontology). I say "supposedly" universal as it has not been proven that the seeming Laws and constants discerned in the proximity of the Earth actually apply throughout the known universe. The aforementioned paradox of highly Redshifted quasars connected by gas jets to low Redshift Seyfert galaxies has led to theories, by the likes of Jayant Narlikar (conforming to Mach's Principle) wherein the mass of newly created material particles may not be constant but starts off at zero and increases as the extent of interaction with the rest of the universe increases [HA]. Mach's Principle, which Einstein tried to incorporate into his General Theory of Relativity (GTR), was that inertia (i.e. mass) arises as a relativistic consequence of interaction with the rest of the entire universe. There are also alternatives to the Big Bang hypothesis which treat the speed of light as variable at different epochs of cosmic creation.

Indeed, building on the aforementioned ideas of Schrödinger, Mach's Principle, as well as the views of Einstein, Mach, Clifford and others, my acquaintance the US physicist Milo Wolff [MW] has put forward a remarkable new holonomic (each seemingly discrete 'thing' exists by virtue of relativity to everything else) Wave Structure model of the electron, resembling Indian Tantric (phenomenal universe as energetic manifestations) metaphysics. Though still in its infancy, this approach begins to show how it is possible to account for both the emergence of particle-like material phenomena from the underlying wave dynamics and also for the self-organizing appearance of fundamental constants so-called 'laws'. It also casts some light on the intriguing relationships between microcosmic and

macrocosmic physical constants pointed out by Paul Dirac (the great physicist who put forward the notion of Antimatter). In fact, the physicist David Bohm, famous for his metaphysical notion of the ‘implicate order’ (a neologism for the ‘transcendental’ realm underlying Nature) had suggested a model similar to Wolff’s in the last chapter of his last book [B&H].

The mathematical physicist and mystic J.H.M. Whiteman had argued back in 1967 that the Universal Cohesion (i.e. coherence) of the universal laws applying to physical phenomena and the true underlying Causality, connecting the discontinuous events registered by our instruments, indicated the presence of such a mutually interrelated (i.e. holonomic) transcendental substructure to the discontinuous events or spatiotemporal phenomena described by Physics (i.e. an order of reality prior to physical phenomena). The ‘discontinuous events’ referred to here are the particle-like phenomena which we detect with our instruments given that QM does not describe ‘particle trajectories’ linking together such phenomena. The reader will probably be familiar with the supposed paradoxes involving supposed ‘particles’ passing through two slits simultaneously (actually based on the false assumptions regarding the existence of individual particles moving around on their own like objects in the macroscopic world).

Whiteman also argued that the great success of QM in predicting physical phenomena implied that this transcendental substructure was a Wave Structure. In QM, *energy* (and hence *mass* due to mass/energy equivalence) are associated with *wave-frequency* and *momentum* with *wavelength* [PST]. I had argued in *The Oneness/Otherness Mystery* [O/OM] that the so-called Laws were such self-organizational properties emerging from the resonant interactions of the energetic waves and vibrations underlying material phenomena. This deeper, transcendental reality was what Carl Jung was hinting at in regard to his vague and seemingly anthropocentric notion of Synchronicity (meaningful coincidences) which represented a special case of the more general ‘Acausal Orderedness’ underlying the predictable regularities of Space-Time-limited ‘Causality’ [P&M].

In *On Physics and Philosophy*, d’Espagnat mentions the arguments of Jean Petitot on Science and Ontology. Petitot has put forward the valid argument that Physics gave up seeking to discern the true substantial nature of Being long before Niels Bohr. Bohr’s orthodox Copenhagen Interpretation of QM interpreted QM and Science in general as being descriptions, not of anything like a given external reality, but merely of intersubjective (interpersonal consensus), communicable human experience. Thus for Bohr, scientific “Reality” is actively constructed not only by human thought but also by our

operational (experimental set-up) decisions [BdE]. The latter point of our operational (or instrumental) decisions is most apparent in regard to the wave/particle paradox for, as indicated above, ‘particles’ are really constructs abstracted from our interaction with Nature associated with energy transfers which occur in quantized packets. Mathematical physicist Richard Thompson states that scientific statements refer only to patterns of correlation in (human) sense data [MNMS]. D’Espagnat himself notes the highly artificial nature of isolating individual atoms in recent so-called ‘photo’ images and, given that ‘particles’ do not have trajectories, the particle aspect should strictly be considered as merely aspects for human observers with no implicit assumptions about actual properties [Bd’E]. In fact, single atoms still display interference patterns in a two-slit experiment [JG], i.e. pass through both slits simultaneously so they cannot be discrete entities. Petitot argued that, in seeking law-like ordering of Nature rather than its intrinsic (substantial) features, the Galilean-Cartesian revolution in Physics (i.e. Classical Physics) had already discarded Ontology (questions about the true intrinsic nature of Being) before Bohr’s interpretation of the New Physics which remains the orthodox view [Bd’E]. We shall see that this ontological vacuity of modern Science, describing only the regular patterns of phenomena whilst ignoring substantial questions about the nature of Being is related to the famous Brahmanic notion of *Maya*.

There are wackier speculations regarding our Existence and Creation put forward by some distinguished scientists faced with such grand metaphysical questions. The British Astronomer Royal and President of the Royal Society, Martin Rees, was recently promoting in the popular media the contemporary, Computer Age myth that our existence may be only a Virtual Reality type simulation in some ‘cosmic computer’. Rees, following his friend Nick Bostrom, makes a facile literal extrapolation from the simple computer simulation known as the ‘Game of Life’ in which the following of a few simple rules for motion and interaction results in the generation of somewhat complex and unpredictable two-dimensional forms from an initial set of 2-D forms. Rees and Bostrom assume without question notions such as Laws and atoms and they conclude that our universe was created by more intelligent beings in a multiverse (a larger Reality containing many universes). In this puerile fantasy, it is claimed that the God of our ancestors (suggesting all humans were monotheists with the same ‘god’) is this greater intelligent being creating our simulated universe.

This myth assumes that we can never uncover the Secret of Creation, never look beyond the spatiotemporal order of phenomena and discover how it is actually being generated, so, for all we

know, our very existence might just be a giant computer simulation! This modern Computer Age myth is little different from the Christians' projection of a Cosmic Lawgiver or Sovereign, or the ancient view that the Earth rides upon an elephant, which rests upon turtles. These are fantasies created by those who are ignorant of the fact that we can transcend the realm of spatiotemporal phenomena to realize within ourselves the source of the universe, or Creation. In 2011, the Templeton Foundation, a Christian organization which promotes Monotheism and Creationism, awarded their £1 million prize to Rees. This was presumably related to some comments made by Rees including that he still attended Church and some mild comments criticizing the radical Atheistic proselytizing of some well-known British scientists. Harry Kroto, a Nobel laureate in Chemistry commented [Ind 7411], "There's a distinct feeling in the research community that Templeton just gives the award to the most senior scientists they can find who's willing to say something nice about religion." The prize is supposed to be for Progress in Religion (especially scientific understanding of it). I doubt that many people would be able to list the actual 'achievements' advancing 'progress' in our understanding of Religion for which any Templeton Prize has been awarded.

The Brahmanic concept of *Maya* (the creative power of the Absolute which is usually mistranslated as 'Illusion'), may at first appear somewhat similar to Rees' Virtual Reality computer simulation notion. But *maya* does not really mean that the physical universe is all an illusion or dream, rather that the spatiotemporal phenomena perceived through our senses do not constitute Ultimate Reality. In October 2010 the BBC TV's science flagship series *Horizon* showed how the study of illusions in Cognitive Science is revealing, contra naive Realism, just how subjective and constructed our perceptions are. Perceived colours need not be correlated with wavelengths of visible light as has long been known in regard to Colour-Constancy under changing light conditions. Perceptual tricks to fill in missing sensory information evolved to enhance our survival chances. On 30th June 2012 the *Daily Mail* reported on a research paper published in *Nature* by a Jay Neitz of the University of Washington which suggested that neurons controlling colour perception are not predetermined and that it was possible that one person's experience of the colour red may be what another person experienced as blue. Such studies show just how wrong is the naive **epistemological Realism** held by many Physicalists which holds that colours are nothing more than the wave-lengths of visible electromagnetic radiation. There is no objective Empirical Reality witnessed through our senses, there is only intersubjective (interpersonal) consensus.

Bernard d’Espagnat stresses that Physics is limited to direct knowledge of ‘Empirical Reality’ (actually meaning the world of sensory perception and its supra-biological extension via our scientific instruments) and, following Kant he imagines that the (human) mind-independent ‘veiled reality’ [the realm of Kant’s *noumena*] is impossible for humans to apprehend [BdE]. Wilhelm and Rawlinson are not alone in arguing that Kant’s *noumena/phenomena* distinction was inspired by the Brahmanic *Maya* as it is essentially the same [CHoI]. We shall see later the overwhelming evidence, commonly known at the time, proving that post-Kantian German (so-called) Transcendental Idealism was derived from the European translations of the Hindu *Upanisads*. These translations excited numerous famous European philosophers and poets who hailed this, deeply profound and rational, spiritual philosophy in contrast to the myths and superstitions of the Bible (the mythical chapters of the Old Testament were actually composed after the *Upanisads*). This so-called ‘Brahmanic Revelation’ posed the first major challenge in the West to the supposedly unique status of the Christian (spiritual) Revelation^{N2} [RS]. Westphal says that Kant did not reveal much about his method of (so-called) Transcendental Reflection. Kant indicated that he used a speculative method involving Thought Experiments designed to try to determine the prerequisites of sensory perception. In fact Materialist Westphal claims that Kant’s arguments actually point to Realism (i.e. that our senses perceive the true Reality) rather than the ‘Transcendental Idealism’ Kant claimed to prove [KW1]. I have just shown above that recent Cognitive Science research has exploded the naive myth of Realism.

Brahmanism knows that, *contra* Kant’s beliefs (Kant was extremely hostile to mystical claims [AP], it is in fact possible to transcend spatiotemporal perceptions and ‘see’ (with the ‘Inner Eye’) or ‘realize’ mystically how the phenomenal universe is generated. The 20th Century US mathematician, mystic and philosopher Merrell-Wolff admitted that he had failed to disprove convincingly the Kantian dogma that there is no **Third Mode of Knowledge** (beyond Sense Perception and Reason) which reveals **Metaphysical Knowledge** [RL]. At the end of the following section, I shall briefly show how my identification of the physical correlate of the Inner Light of Pure Consciousness allows us to begin to understand in scientific terms, both how it is possible for the individuated consciousness of the human being to transcend the spatio-temporal limitations of the Empirical world and experience transcendental realms. But also I will also undermine Kantians, Existentialists, Constructivists and more or less the whole of Western philosophy by revealing how it is possible for the individuated human consciousness to go completely beyond the structural limitations of human embodied being and

experience the (metaphysical or ‘noumenal’) Reality in itself, attaining **unmediated knowledge** independent of human mental constructions, in this mortal life.

The True Temple of the Spirit and Human Access to Metaphysical Reality beyond Sensory Appearances

The Secrecy of Ancient Mystery Traditions and the Problematic Notion of Ineffability

You might have heard it said that the human body is the Temple of the Spirit. Indeed, a Hindu temple is said to symbolize, in its architecture, the so-called subtle body (or etheric or energy body) [EG], well known to Western psychics and healers, with its so-called *chakras* or vortex-like energy centres along the spine which, according to some, are opened in Yoga. Whereas the Christians build their churches to look upwards to the sky above as a representation of an imaginary heaven, the most sacred part of the Hindu temple is the innermost sanctum, hidden deep within the structure. As William James asserted famously in his *Varieties of Religious Experience*, beneath the surface of what seems to us most familiar and unassuming, our own consciousness, there lie hidden wonders, exotic Planes of Consciousness very different to our everyday existence. **No account of Reality, no account of the universe in its totality can be complete**, noted James, **which ignores these other forms of Consciousness.**

But James appreciated that most of us may well go through life without even suspecting the existence of these altered states of consciousness [VRE]. Thus Materialist scientists and writers who insist stubbornly on the non-existence of mystical experience of non-material realms and of paranormal psychic phenomena are like Edwin Abbot’s inhabitants of *Flatland* who deny the existence of a Third Dimension because they have never experienced it. Contrary to naive secular misrepresentations of *Flatland*’s intended meaning, ordained theologian Abbott was quite clearly using higher dimensions in *Flatland* as a metaphor for transcendental religious experience [which in fact can involve experiences non-Euclidean ordering of space and time]. William James’ own experiences were based on experimentation with nitrous oxide [GWB] and largely restricted to more superficial Nature Mysticism (*see below*) as expressed in his inchoate Panpsychist metaphysics of Pure Experience.

However, many a person may become aware of the greatest secret of human existence, of which James remained largely ignorant, only in the final moments of life. This revelation at the

Moment of Death is not one that can usually be transmitted to others. A Cambridge taxi-driver who had been a soldier told me that many a dying soldier, who were lifelong Atheists or Agnostics, uttered the word 'God!' with their last breath. Intimation (proclamation) of such intimate (Latin: *innermost*) secrets has long been suppressed by Jews, Christians and Mohammedans as it undermines their religious beliefs, exposing them as superstitions susceptible to disproof in spiritual experience. Such spiritual experiences are repeatable and verifiable by interpersonal consensus analogous to the intersubjective consensus which underlies the, epistemologically false, claims to 'objectivity' made by Physical Science. Modern (Materialist) Science, rooted in Judaeo-Christian and Greek anthropomorphic mythology, also tries to suppress discussion of this Great Secret (in the form of modern-day Near-Death Experiences) as its own dogmatically held beliefs are also undermined by such inconvenient facts.

Tacit intimations of this Great Secret are to be found all around us even in such well known cultural artefacts as the Mughal mausoleum in India, the Taj Mahal, the anthem of the European Union and the Great Seal of the United States of America as depicted on the Dollar bill. Each of these artefacts used to symbolize these great supranational unions also hints at this Great Secret. This secret has been wrapped up in arcane symbolism and often deliberate secrecy. Indeed, the word *mystic* originally referred to someone initiated into secret and sacred rites. Throughout around five millennia of civilised history this secrecy has helped contribute to the jungle of confusion and misunderstanding of such rare and exalted experiences. The exclusive association of the *mystical* with Religion (and Spirituality) is a product of modern secularization dating from around the late 17th Century in Europe (the Age of Reason). Prior to this, the 'Natural Philosophy' or 'Science' of the Renaissance was viewed as one way of uncovering the hidden meaning of God's Universe. Thus Natural Science was itself originally a mystical pursuit [RK]. This is clear in Kepler's references to Hermetic 'archetypes' and the highly mystical Isaac Newton's writing about seeking out God's laws by experimentation rather than through Divine communion [MH/MJ].

We shall see that European scholarship has misunderstood and misinterpreted the esoteric mystical symbolism of the ancient Indian hymns known as the *Rig Veda* leading to absurd racist fabrications of Ancient Indian history which remain the orthodox dogma of mainstream Western historians. There is remarkable astronomical and archaeological evidence (as well as more recent DNA studies) supporting the traditional Brahmanic view of the Indian setting and the true antiquity of the *Rig Veda*

which probably dates from the 3rd Millennium *b.c.e.* about two millennia before Gautama Siddharta, the so-called Buddha (or ‘Awakened One’), who some ignorant Western Buddhophiles seem to think was the first to attain so-called Enlightenment.

Numerous uncritical writers regurgitate the myth, believed by Renaissance Occultists like Bruno, that the esoteric Greek texts known as the *Corpus Hermeticum* associated with so-called ‘Alchemy’ was written around 3,000 *b.c.e.* in Egypt and was the *prisca theologia* or original pristine wisdom which had become increasingly corrupted through the ages. The mythical author Hermes Trismegistus was seen by Latin translator Ficino^{N3} as the first *priscus theologus*. But as long ago as 1614, using critical textual analysis, Isaac Casaubon had exposed the true age of the *Hermetica* as dating from the early Christian era around the 2nd Century. Casaubon noted that there was not a word about Hermes Trismegistus in any major pagan writer and he believed that the *Hermetica* were forged to make the new Christian doctrine more palatable to non-Christians. The *Hermetica* even pretends to prophesize that the old religion of Egypt will be superceded by Christianity [FY]. A related falsehood peddled by some Afrocentric myth peddlers and some others (e.g. Yoshiko Kimura) is that Yoga originated in Egypt and was transmitted to India. As we shall see, archaeological artefacts clearly indicate that Yoga was first practised in the oldest Indian civilisation, the Saraswati-Sindhu in the 3rd Millennium (M) *b.c.e.*

The ancient Vedic wisdom of India, eventually developed into the world’s first conceptual ‘Philosophy’ in the poetic texts known as the *Upanisads* (Upanishads; starting *c.* 1,000 *b.c.e.*), which were jealously guarded by the Brahman caste. Contrary to racialist Western academic presentations, we shall see that this Brahmanic philosophy, older than the earliest Greek Philosophy (which copied many ideas from Oriental philosophies and science), is actually more veridical both ontologically and scientifically than that of Ancient Greeks. As indicated above, 21st Physics, Cosmology, ‘Postmodern’ Mathematics and Cognitive Science/Psychology are more in tune with ancient Indian rather than Greek philosophy. The Ancient Hindus actually outclassed the Greeks in Mathematics, Astronomy and Logic and modern Science was based largely on Hindu, not Greek, maths. I identified the physical correlate of the Divine Light with a well-established brain process known to all Medics largely using the factual phenomenological descriptions found in Hindu and Buddhist philosophy. Given my correlations between Upanisadic knowledge of Consciousness and modern scientific and phenomenological

knowledge, the *Mandukya Upanisad's* famous 4-State Model of the States of Consciousness (represented by the AUM symbol) remains a scientifically valid categorization!

In India, the seeker of salvation went to a guru and learnt the “secret” knowledge or *rahasyam*. This was also true of the non-Brahmanic wanderer schools which co-existed with the orthodox Brahmanic tradition. This resembled the Greek *paradosis* or transmission of esoteric knowledge, often on a one-to-one basis [GO]. Initiates in the Greek Mystery Religions were famously sworn to secrecy (see Chapter 3). The post-Christian *Corpus Hermeticum* claims that the ancient Egyptian priesthood also kept their esoteric, occult knowledge secret from the vulgar masses. This is a reasonable assertion given that Greeks had lived in Egypt from 750 *b.c.e.* (at Heliopolis) and probably much earlier, thus Hellenistic writers would have some knowledge of the Ancient Egyptian traditions. Rather like today’s vulgar pop writers who are captivated with the pyramids, the Classical Greeks, awestruck by the ancient stone monuments, believed mistakenly that all civilisation and culture originated in Egypt; the so-called *Greek Mirage of Egypt*. Herodotus claimed that the Egyptians are quite certain of dates going back 15,000 years before Amasis [GN]. We now know that Sumerian civilisation in Mesopotamia was older than that of Egypt and the Babylonians were more advanced in intellectual activities like maths than the Egyptians. Now that we are in the 26th century after Gautama Siddharta (a.k.a. the Buddha) tried to learn for himself this secret mystical wisdom, and to reveal it (or at least methods to attain it) to the masses, we have reached a stage of collective human knowledge where we can now largely reject with some confidence an ancient argument, habitually rehashed by most writers on Mysticism, which has introduced tremendous confusion into all discussions of Mysticism.

William James reinforced this argument in *Varieties of Religious Experience* in which he listed the first characteristic of mystical experiences as their *ineffability*. Most Western scholars of, and popular writers on, Mysticism have simply taken it for granted that mystical experiences are ineffable. This implies that mystical experiences are completely beyond the limited capacity of our languages and our abstractive and dichotomizing thought processes to convey their true character, hence the use of often self-contradictory attributes and of negative terminology (the *via negativa* - asserting what they are not to dispel the error of exact description) to describe them and insisting that they can only be understood properly through experiencing them. Mystical realizations may be extremely numinous or ‘meaningful’ (in a supra-rational sense) whilst in such states, sometimes involving identity of subject and object (or “becoming one with” aspects of Reality). Once one returns to normal modes of

cognition, locked into subject/object dualities, and mundane spatiotemporal causality which are intrinsic to all languages, the mystic struggles to capture the experience of an alternate 'world' in words framed in the context of our everyday world of experience.

But if we are truthful, our words and concepts are insufficient to convey fully even simple experiences such as the taste of avocados to someone who has never tasted this exotic fruit^{N4}. However, with sensory experiences, it is usually quite easy for the uninitiated to attain the sensation themselves. On the other hand, deep mystical realizations are notoriously difficult to attain, with the traditional prerequisite of world-renunciation and Asceticism. Decades of effort may result in failure, false pseudo-realizations or incomplete and partial insights. Over-exaggeration of ineffability and overuse of negative terminology associated with it has created endless confusion and controversy especially amongst various sects purporting to be the followers of the Gautama Siddharta, the so-called 'Buddha'.

In fact, ancient literature such as the *Iliad* only had about three colour concepts (e.g. the sky was bronze). In the antiquated Sanskrit language many words are polyvalent, having different meanings in different contexts, indicating a lack of conceptual differentiation. Studies have shown that primitive tribes-people can discriminate various distinct colours but lack the concepts to differentiate them. This is related to the Sapir-Whorf hypothesis stressing the importance of linguistic concepts in our 'dissecting' and categorizing the phenomena of Nature. Both Brahmanic and Greek philosophy developed abstract philosophical concepts from phenomena previously symbolized by anthropomorphic deities as we shall see. Contemporary science and technology provides us with numerous new concepts allowing us to describe and discriminate subtle, nebulous, and highly abstract phenomena such as those associated with Information Technology, Electricity, QM or Relativity which would have appeared more or less ineffable to the Premodern Mind. We shall also see that numerous Ancient Indian mathematical, logical, grammatical, cosmological and metaphysical concepts were too sophisticated for the supposedly 'modern' mainstream European Mind of the Renaissance, Enlightenment, 19th and even 20th Century academics to grasp.

Although grounded on Christian superstitions and Greek myths (*as we shall see*), modern Western Science has nonetheless advanced remarkably our understanding of natural phenomena such that, with the advent of the new QM of the 1920s, Science has actually trespassed into the domains of the Supernatural and Transcendental which Descartes' compromise with the Catholic Church had left outside the realm of Science. Nature alone was to be the domain of the new Natural Philosophy which

we now call Science so as not to create conflict with the Church. Concepts now exist within our language, drawn from the New Physics and its interpretation (e.g. holonomic inter-relatedness of all phenomena, nonlocality, coherence, entanglement, nonseparability) and elsewhere (e.g. Virtual Reality, non-Euclidean geometries, Cymatics – creation of dynamic forms through wave phenomena associated with Sound) which, as we shall see, allow us to say much more in positive terms about the deepest mystical experiences which in the past could only be expressed in symbolic metaphors, myths or inadequate ancient philosophical concepts. Furthermore, the invention of psychedelic drugs, such as Albert Hoffmann's LSD, has allowed numerous Western psychiatrists, scientists and technologists to experience Altered States of Consciousness without the hassle of Asceticism leading them to seek out Indian philosophical knowledge.

Franklin Merrell-Wolff lamented the fact that many enlightened men throughout history lacked well-developed intellects and thus failed to explicate the path clearly for others to follow. He acknowledged that a powerful intellect can, though need not be, a barrier to enlightenment [E&P]. The famous *Brihadaranyaka Upanisad* states that it is harder for the learned to know Brahman than the unlearned. Radhakrishnan comments that spiritual attainment is not perfection of the Intellect but an energy pouring into it from beyond, vivifying it [ERWT]. The source of this Life Energy (*prana*) which is also the Light of Pure Consciousness (*atman*) which gives access to metaphysical omniscience and Cosmic Consciousness etc. has perplexed philosophers throughout history leading to dualistic separation of Spirit and Nature. The pop guru Ken Wilber, having peddled naive errors regarding the Planes of Consciousness, claimed that even a linkage, let alone a synthesis of Science and Mysticism (including Spirituality) was impossible [QQ]. But as one of the hymns from the ancient *Rig Veda* asserted famously, Truth is One though Sages call it by many names. As Willis Harman argued, Reality is One, so if Science and Spirituality could not be harmonized, either one or both of them were wrong [JW].

Contemporary mystic and Religious Studies professor, Christopher Bache, who has realized mystical union etc., thinks that ineffability is overrated as a sign of genuine mystical experience. If you can't represent even to yourself where you have been, he says, you probably just got lost [CB]. Ironically, whilst highlighting the ineffability of mystical experience, William James (in *Varieties*) also mentioned that the expression 'field of consciousness' had had come into vogue (in the early 20th Century). He added that psychologists (referring primarily to German Gestaltists) tend to view the

actual unit as more probably the total mental state (Gestalt), the entire **wave** (*emphasis mine*) of consciousness or field of objects present to the thought at any time (note James used Stream of 'Thought' for Stream of Consciousness).

In fact, about two millennia before James, the great Indian philosopher Patanjali, began his famous *Yoga Sutras*:

Atha Yoganusanam/Yogas citta-vritti-nirodhah

Meaning, "Now an exposition of Yoga/Yoga is the cessation of the **waves** of the mindstuff" (*emphasis mine*). Note that, although supposedly authoritative scholars have translated the Sanskrit term *vritti* in many English renderings, it literally means **waves** reflecting the actual phenomenological facts rather than the various alternative etymological ramblings of word-monger academics. Merrell-Wolff, attained enlightenment and mystical union in the mid-1930s, after 24 years of effort, attaining the deepest mystical Realizations after studying the writing of the great Brahmanic philosopher Sankara. Merrell-Wolff stated that Consciousness (or 'Life') is in some sense like electrical energy fields [E&P]. We shall see that this equivalence of 'Life' with Consciousness is a rediscovery of the *Prana/Atman* (Life Energy/Impersonal Spirit within) identity of the aforementioned ancient Hindu texts known as the *Upanisads* (Upanishads). Electrical Engineer and Psychical Researcher Dean Radin states in his *The Conscious Universe* that the idea that Consciousness may be field-like can also be traced back to the Upanishads, with their concept of *Brahman* [DR] (pronounced "Brummon"), the Absolute Transcendental Consciousness from which the phenomenal universe (empirical world of spatiotemporal forms) manifests. However, discussion of such philosophical issues within the Western academic Physics establishment has largely been rendered taboo as many open-minded physicists, interested in going beyond mere technical problems, have testified [e.g.LSm]. A similar dogmatic attitude resembling Medieval Scholasticism with the brazen suppression of heretical voices by the established Orthodoxy appears to permeate Western academic (primarily Anglo-American) Astronomy/Cosmology [HA].

In fact the rise of the new QM in the mid-1920s actually involved two European physicists, German Werner Heisenberg and the Austrian advocate of *Advaita Vedanta* (Nondual Brahmanism), the aforementioned Erwin Schrödinger, who have both put on record the influence of Indian philosophy upon their revolutionary ideas in physics (*see chapter?*). However, Western academia clings to its, subliminally racist, Eurocentrism and largely suppresses mention of such non-European influences on

Western ideas. Heisenberg, the prime inventor of QM, himself checked the manuscript of the chapter on QM in *The Philosophy of Space and Time and the Inner Constitution of Nature: A phenomenological approach* [PST] written in 1967 by mathematical physicist and Sanskrit/Pali-literate mystic, Professor J.H.M. Whiteman. In this book, based on his actual experiences, Whiteman argued in favour of a Universalised Pure Consciousness, transcending appearances in space and time, which is the real core of our Consciousness, and other notions resembling Indian philosophical ideas although Whiteman remained primarily a Platonist. Chapter 21 is entitled “The Direct Knowability of Transcendental Constitution”, and is headed with mystical quotations from Plato’s *Republic* and Patanjali’s *Yoga Sutras*. In Chapter 20, entitled “Indirect Knowability of Inner Constitution: The Interpretation of Quantum Theory”, Whiteman wrote that the change from the old Quantum Theory (i.e. Bohr’s model of the Hydrogen atom) to the new QM about 1925 created virtually a new science.

The concepts of *energy* (and hence *mass*) and *momentum* in QM are associated with Wave Frequency and Wavelength, respectively. ‘Particle-like effects’ or scintillations, says Whiteman, are more accurately characterized as localized Quantum absorption effects [PST], a view pre-empting Milo Wolff’s elucidation of ‘elementary particle’-like phenomena as resonant Energy Transfer processes arising from interactions in the underlying Wave Structure. Whiteman [PST] even states:

The closeness of agreement [between QM and measured phenomena] indicates, perhaps, that the originating causal laws of movement and forces in nature are to be found in an ultimate wave-structure in fields and concentrations. The outward manifestations that we call momentum, energy and force are end-results in which the unobserved causal world [i.e. the transcendental substratum to the phenomena of the physical world] has taken on, in our imagination, a sensory character in accordance with its effect on our sense of touch and bodily resistance.

The aforementioned inventor of the notion of antimatter, Paul A.M. Dirac, the second greatest English physicist after Isaac Newton (although Dirac’s father was French), invited Whiteman to Cambridge to discuss the book with him personally. Whiteman’s emphasis is on the Transcendental Substructure as a realm of infinite *potentialities* which actualize upon occasion and this ties in with Heisenberg’s notions of Energy and the Quantum Wave Function representing *potentia*. As Germany’s seniormost physicist, Heisenberg was chief of Hitler’s atomic bomb project during the 1939-45 war and thus the Anglo-American West has largely ignored his ideas although both Heisenberg and

especially Schrödinger's philosophical ideas (along with those of Eddington and Pauli) and, in general, the metaphysical implications of QM are far more profound and ontologically more fundamental than those of the relatively superficial and abstract GTR. Yet Einstein has attained the status in Western popular culture as the celebrity "icon" (a pseudo-intellectual media buzz word) even though he tried to refute the implications of the new QM that has proven itself amazingly accurate in all tests of its validity. In fact, we shall find that many of the hyped-up intellectual 'icons' lionized by the Western media such as Einstein, Bertrand Russell, Sigmund Freud, Stephen Hawking, Francis Crick, Richard Dawkins, Richard Feynmann, Immanuel Kant and countless other Western 'intellectual giants' were or are, in some respects, 'little minds' incapable of transcending the false mythologies culturally indoctrinated into modern Western societies.

We shall see that the previous lack of adequate concepts concerning the ego or individuated consciousness, in spite of Gautama Siddharta's teachings that it is a self-organising process (complex of aggregates), has led to much confusion and controversy. Much of the confusion stems from Gautama's own rather vague and misleading concepts and terminology, especially the so-called Doctrine of *Anatman*. The confusion over this manifests not only in regard to the great questions of What am I, and What is our relation with Divinity where major philosophical schools collide but also leads to great confusion over issues such as the yogic state of Deep Sleep consciousness (*susupti*) which, supposedly authoritative, Indian commentators misunderstand. The oft-repeated arguments that a 'feeling of refreshment' upon waking or the lack of memory argument used to defend the existence of Pure Consciousness in Deep Sleep in scholarly books on Indian Philosophy appear totally absurd when compared to my Activating Brainwave correlate of Pure Consciousness which Science knows remains active during Deep Sleep.

Once we have a much clearer picture, based on converging lines of empirical evidence, as to what the physical correlate of ego consciousness is, it becomes much easier to clarify these great questions which, even those who have experienced enlightenment can easily misinterpret. Experience in itself is not sufficient as, unless one has advanced intellectual training along with adequate conceptual constructs to label the subtle processes of yogic transformation, one is likely to sow only confusion amongst those who rely upon the written word. Thus we find that there is no consistent description of a supposed 'subtle body' that has been claimed to exist by many mystics. The doctrine of Ineffability is a product of the historic inadequacy of human concepts to capture the essential features of transcendental

realizations. Merrell-Wolff states correctly that clinging to traditional methods and interpretations is a subtle form of attachment and hence a barrier to enlightenment [TiC]. However, by identifying the physical correlate of the central element of all true Spirituality with a well-established physiological process, related issues such as the nature of the ego consciousness and Deep Sleep consciousness, begin to fall into place. Countless false interpretive speculations can be dismissed with confidence now we have a solid 'handle' to grasp the deepest, most central and ubiquitous component of mystical transformation, the Inner Light. The likes of Aurobindo Ghose and Merrell-Wolff have described the ego as being like a **vortex** in the underlying flow of the Stream or Current of (Pure) 'Bliss' Consciousness. Anthony Damiani, a famous advocate of Eastern spirituality in the USA, wrote that the Real Self is the Nothingness, the empty centre of the **vortex** of thoughts [SM].

Reductionist science, EM fields, Consciousness & Transcending Material Nature through 'Unhumanization'

As with Physics, Life Sciences also made remarkable progress in the 20th Century C.E. This was in part due to the influx of physicists into Biology just after the 1939-45 war^{NS}, partly shocked by Hiroshima and Nagasaki, and partly inspired by a little book by Erwin Schrödinger called *What is Life* [ES] in which Schrödinger again propounded his monistic Vedantic (Brahmanic) philosophy in the appendix. This book helped stimulate the revolution in Molecular Biology which was my own field of study at university. This revolution, combined with the fact that most biologists (as indeed most scientists) do not yet understand the deeper implications of the new QM, has led to a naïve, reductionist conception of Life as if Life is merely the result of the replication and transmission to offspring of DNA macromolecules which encode for other macromolecules called proteins.

Archbishop of Canterbury Rowan Williams wrote rather aptly in regard to the views of biologist (and proselytizing pop philosopher) Richard Dawkins, just because you are a scientist doesn't make you a good philosopher [Gu141007]. I have thought that Professor Dawkins should have used the more pithy 'Dick Dawkins' for his mass market myth peddling; his literalist interpretations reveal him to be the alter-ego of the religious fundamentalists he lambasts. I share Dawkins' disapproval of the dogmatic superstitions of the Semitic religions, especially the unsavoury tribal wargod Yahweh, and their rejection of Evolution. But Materialist Dawkins completely fails to recognize his own dogmatically-held beliefs and the fact that Spirituality *per se*, stripped of Semitic religious codswallop,

is much more than just outdated, Bronze Age mythology. Goodwin points out that Dawkins' 'Selfish Gene' views are an (unconscious) reformulation of the vulgar form of the Christian myth of Original Sin in which humans are born into Sin but through Faith and moral effort, Humanity can be saved. In Dawkins' secularization, we are (supposedly) born innately selfish but can become altruistic [BG]. The real meaning of Augustine's myth of Original Sin has to do with the human development of ego consciousness and volition from the earlier unreflective, Nature Mystical consciousness of primitive hunter-gatherers which Australian Aborigines refer to as the Dreamtime. Indeed, both Christian notions of Sin and Eastern notions of Karmic attachment are centred on voluntary action undertaken by the (self-centred) ego.

Not surprisingly some have referred to Dawkins as the Mad Mullah of NeoDarwinism. Genetic transmission of hereditary factors is certainly not what most people throughout history have thought of as *Life* or the sense of being *alive* although pseudo-intellectual biologists and journalists refer in reverential terms to the Human Genome Project as the supposed "Book of Life"! Viruses (which may have evolved from rogue cellular genes) replicate their RNA or DNA molecules but, in itself (outside of a living cell), a virus is not a living system. We will see, in regard to the myths of the Elixir of Life, Water of Life etc., that the true understanding of Life requires a much broader understanding which accounts for why ancient philosophers in both East and West, and the likes of Husserl and Merrell-Wolff, have associated Life with Consciousness and Energy. The Christian Baptism as with Hindus washing away sins in the river Ganges are practises that arose from mental projection of the flow of Spirit or Pure Consciousness onto physical water and rivers. The real Spiritual Baptism, Rebirth or Resurrection is a transformation of the Egoic-Consciousness ('mind') in the Flowing Spirit or Inner Light.

Similarly, in regard to the mind and brain, it is commonplace for Western scientists and philosophers to propound the Behaviourist myth of *Neuronal Man*. "Neuronal Man" first appeared as the eponymous title of a pop science book by French Nobel laureate J-P. Changeux. There is no mind, nothing psychic, only neurones. Consciousness is but the functioning of the regulatory system and it 'emerges' **literally** as an iceberg emerges from water (*emphasis mine*)[JPC]. This is an absurd simile glossing over a complete vacuity of explanation; we do not posit a (magically appearing) sentience to parts of floating objects protruding above the water! Nor do we lose consciousness by swimming underwater! Of course, Even if we take the iceberg metaphorically as referring to our self-conscious

ego sitting atop much vaster psychical processes of which we are normally unconscious, this does not, in any way, come close to explaining what Consciousness is!

The Neuronal Man myth is perhaps best expressed by the better known English Nobel laureate famous for discovering the double helix structure of DNA, Francis Crick. In his 1994 book *The Astonishing Hypothesis: The Scientific Search for the Soul* [FC], Crick states.

The Astonishing Hypothesis is that “You”, your joys and your sorrows, your memories and your ambitions, your sense of personal identity and free will, are in fact no more than the behavior of a vast assembly of nerve cells and the associated molecules. As Lewis Carroll’s Alice might have phrased it: “You’re nothing but a pack of neurons.”

Neurons are important in understanding the nature of the mind or ‘mentation’ but, as we shall see, cannot account for Consciousness *per se* (primarily in the sense of Awareness). The truly astonishing, unashamed puerility of Crick’s ‘Neuronal Man’ view resembles more the over-hasty jumping to immature conclusions of a teenage ‘Hormonal Boy’ than the reflections of a mature thinker.

Crick makes another revealing statement in this book. He says that for Western religions, the vast scale of the Universe known to Science was almost inconceivable. But he adds “certain Eastern religions, such as Hinduism, took pleasure in inflating times and distances for the sheer joy of it” [AH]. Once again we find a distinguished scientist exhibiting unashamedly his astonishing ignorance along with his Eurocentric arrogance. Most scientists (indeed most academics) reveal the limited breadth and depth of their knowledge, often quite embarrassingly, the moment they venture outside their ultra-specialized technical domains, revealing themselves to be “glorified technicians” rather than the “philosopher-scientists” they imagine themselves to be. Crick’s second chapter is entitled “The General Nature of Consciousness” yet Crick says nothing (and probably knows nothing) of Altered States of Consciousness. It is Crick who has a grossly inflated view of the scope of his own understanding and whose ego is, metaphorically, over-inflated like a balloon full of hot air that needs to be pricked!

The underlying nature of Consciousness has long been of central concern to Hinduism and, by exploring this, Hindu mystics gleaned insights into the vastness in Space and Time of the Universe as deeper states of Consciousness transcended the perceptual limitations of normal Space/Time/Causality and the ego dissolved into an unlimited or infinite expanse of Cosmic Consciousness. Such insights have been confirmed by scientifically-educated modern Western mystics and LSD researchers. We saw above how the notion of *Akasa* parallels the New Physics in describing Space as subtle matter

characterized by Vibration which ‘densifies’ into gross Matter. Modern scientific cosmology is only recently beginning to appreciate the seemingly startling prescience of ancient Indian concepts of the distinctionless “plenum/void” transcending space and time (*nirguna Brahman*) from which the material universe (or Creation) manifests and of notions such as the holonomic (or relativistic) interpenetration of all phenomena in the transcendental. Recent notions that three quarters of the Universe is ‘Vacuum Energy’ or ‘Dark Energy’ parallel the claim in the *Chandogya Upanisad* that three fourths of Supreme (*nirguna*) Brahman remains unmanifest in the heavens. The Hindu ‘kalpas’ (cosmic cycles of Creation and dissolution) could be successive (Cyclic) or co-existent (Multiverses) with Time existing only in relation to the dynamic evolution of each individual universe [RN]. We shall see later how Hindu notions revolutionized Western cosmology and scientific thought in the late medieval Renaissance and again during the 18th Century ‘Enlightenment’. Only now in the late 20th and early 21st Century are Cosmologists beginning to produce models of multiverses bubbling forth universes and cyclic universes manifesting and dissolving back into Dark Energy etc. paralleling ancient Hindu insights. To dismiss such insights as mere fantasies made up for the joy of exaggeration, because they are so remarkably different to the Judaeo-Christian-Greek geocentric cosmos (with the Sun, Moon and six planets), reveals more about how small-minded, arrogant and culturally-blinkered are the supposedly “visionary” thinkers of mainstream Science.

Zoological neurologist J.Z. Young pointed out in his 1987 book *Philosophy and the Brain* [JZY] that the convenience of probing live monkey brains with micro-electrodes has led to the fixation of contemporary neurologists with the activity of individual neurons whilst failing to see the “forest for the trees”. In this case the forest being the field dynamics of the brain which seem intuitively to be far more likely candidates for the physical correlates of what we call mental activity as we saw above in regard to William James and Gestaltism etc. The Field Theory of the Gestalt psychologists, such as Wolfgang Köhler, was itself inspired by the new QM and also by Husserl’s Phenomenology with its notion of the Field of Pure Consciousness. Hans Berger invented the electroencephalogram (EEG) in 1925 after a telepathic incident with his sister and he hoped to use the EEG to study telepathy [DR/SP], another fact which the Western scientific orthodoxy would like to brush under the carpet. In spite of new brain-imaging techniques, the EEG remains the most useful monitor of real-time gross brain activity correlated with behaviour. Yet even today, according to the recent *Electric Fields of the Brain*, very little is known about the so-called brainwaves and field activity believed to underlie the electrical

potentials detected by the scalp electrodes of the EEG [EFB]. Nonetheless enough is known for me to show, beyond reasonable doubt, that the deepest and most profound mystical phenomenon, the Inner Light of Pure Consciousness, is correlated with a very special set of brainwaves, whose source structure has been known since 1949 [B,B&N]. In fact, I first learnt of the brainstem Reticular Formation which generates these brainwaves underlying all other brainwave activity in J.Z. Young's book in 1987, seven years before I made the correlation with the Inner Light. Modern Medicine has long recognized the central and essential role of the brainstem Reticular Formation activity as the key prerequisite for any form of Consciousness^{N6}.

This correlation should not be interpreted in a reductionist way as that the Inner Light (Divine Light) is nothing more than the "activating brainwaves". To understand how this brainwave correlation leads to the Great Secret of Existence we need a much broader and deeper understanding of Reality than the technically-limited concepts of Science. We can then appreciate that "brainwaves" and other scientific concepts are, in part, the product of the limitations of technology which can only abstract certain discrete patterns of information at certain levels of spatiotemporal order from an unimaginably complex, multilevel psychophysical reality. Thus the idealised abstractions or concepts of science, pick out intellectually-manageable, discrete, "skeletal" forms omitting the "flesh", and should not be confused with actual, substantial Reality.

This bigger, deeper Reality transcends the Empirical realm of natural phenomena limited by the mundane order of spatiotemporal events, and involves supernatural, holistic modes of connectedness involving participation of the whole universe including the 'incoming' wave-potentialities of future events which actually constitute the deeper nonlocal 'true causality' underlying the discontinuous sequence of events monitored by our physical instruments. I used the Buddhist term '**Dependent Co-Origination**' (*pratitya samutpada*) for this deeper, holistic, true causation as it evokes the holonomic interdependence of all phenomena [O/OM]. The Buddhist term for such 'holonomy' is *dharmadhatu* [TM]. Although orthodox science continues dogmatically to deny all the evidence, paranormal psychic phenomena really do exist which do not conform to the law-like behaviour patterns abstracted and modelled by Physics. Most scientists are in what psychologists call 'denial' about the existence of phenomena which would undermine their 'world' or lead to dissolution of their habituated and comfort-giving frameworks of mind. As with the constructed illusory nature of Perception, Cognitive Science is also revealing just how much we perceive what our brains **expect** to 'see' depending on

contextual cues and commonplace scenarios. Anomalous information, not matching expectations of habituated cognitive frameworks may be filtered out. We shall see that the invention of numerous invaluable scientific ideas and techniques, ancient, medieval and contemporary involved mystical insights or occult inspiration. J.H.M. Whiteman, who has experienced such psychic phenomena, quotes from *The Personality of Man* (1947) by a G.N.M. Tyrrell [PST]:

The major part of the scientific world...is not animated by a scientific desire to know the truth but is in the grip of a psychological urge to disallow what is distressingly unfamiliar...

The Great Secret of Existence is hidden in a ‘temple’, and although the Hindu temple architects were on the right track, when they viewed the human body as the Temple of the Spirit, they were not quite correct. The ‘opening’ of so-called *chakras* along the spine are, largely, imaginative symbols for use by yogic neophytes to represent the stages of yogic progress. As with the common metaphor that God dwells in the human heart, representing the centre of our being, these are projections onto the human body of mystical transformations although there might indeed be some secondary activity associated with the *chakra* regions, where the experience appears to be occurring, that can even be detected with instruments [O/OM]. Yet the spine does play a key role in the Great Secret as the true Temple of the Spirit is in fact the human brain and the secret is linked to its innermost sanctuary where the primitive, in evolutionary terms, chordate spine enters the human brain as the brainstem.

Contrary to Kantian, Existentialist and Constructivist naivety and dogma permeating Western thought, the human being-in-the-world (or *Dasein* as the Existentialists, following Heidegger refer to the normal sensory or empirical world) can be transcended. As Husserl’s colleague Eugen Fink began to realise in the 1930s, it should be possible to go deeper into the constitutive processes of mind than the superficial (Continental European) phenomenology of Husserl, limited largely to object perception in the mundane waking state. Fink realised that such a deepening would amount to an “**Unhumanization**”. He also realised that the underlying flow of Husserl’s so-called Absolute (or Temporal) Consciousness established the spatiotemporal field horizons or ‘world-concepts’ for perception [RB]. In fact Fink was merely beginning to rediscover ancient Indian yogic knowledge that the underlying flow of the Inner light of Pure Consciousness constitutes the Time/Space Matrix of normal perception. The yogi can transcend this normal field to attain transcendental realisations not limited by the mundane perceptual ordering into strict spatiotemporal relations. Von Franz states that, throughout world mythology, the Time Stream has always been linked to a culture’s highest God

Image or the Image of the Self. She adds that Spatialization seems to be a concept derived from the experience of Time and not *vice versa* [P&M].

We shall see that my **brain-deactivation** and **Retreat-to-the-Brainstem** interpretation of *Raja Yoga* (the path to Enlightenment) begins to account for how such Unhumanization and Time/Space Transcendence occurs as the yogic ‘vehicles’ of consciousness (transformed foci of attention or subtilized or purified forms of individuated consciousness) leave behind the uniquely human structures of the neocortex as they retreat toward the primitive brainstem. Such **subtilization** of the ego is equivalent to stripping the ‘soul’ (*jiva*) of its ‘worldly attachments’ which accrete around the basic individuated nucleus. These correspond to the Vedantic *kosa* or sheaths which have to be removed step by step. By retreating from the cerebral cortex, the yogic vehicle escapes the spatial and temporal-causal limitations imposed on wakeful perception by the flow of the Inner Light through the cerebral cortex allowing experience of underlying transcendental realm where all phenomena interpenetrate unlimited by normal (extensive; mutually exclusive) spatiality and true causation is holonomic (operating through inter-relations or interconnectedness to everything else that exists). Eventually in mystical union the naked, translucent, most subtilized form of individuated consciousness (*anandamayakosa*; ‘Bliss sheath’ or Bliss vehicle’) dissolves into the Inner Light, the underlying, background flow of electrical energy from the brainstem.

As solid-state physicist and Information Technology (IT) pioneer, C.A. Mead (a colleague of the late Richard Feynmann) states, with the phenomena of superconductivity etc., experimental physicists are beginning to realise that Electromagnetism (EM) is the macroscopic manifestation of the deeper Quantum Reality [CM]. It is well-known that the nuclear forces and EM are all manifestations of the same underlying energetic activity. However QM and GTR (i.e. ‘Gravity’) continue to resist unification long after Michael Faraday first tried to show the unity of EM and Gravity based on his spiritual belief in the Unity of Nature. Einstein had already reduced Newton’s imaginary force of Gravity (with its paranormal action-at-a-distance) to a mere phenomenon in his GTR. Eddington stated correctly, in his *The Mathematical Theory of Relativity*, that GTR overlays a fictitious and arbitrary human mental construct, the Space-Time Frame, onto Nature [PST]. Leonard Susskind points out that the rubber-sheet and ball model use to give a mental picture of Space-Time curvature is “all wrong” as it uses the Earth’s gravity to model Gravity (tautologically) and it has no Time curvature [LS]. In recent years, assuming that the ‘standard-candle’ Supernovae data indicating an accelerating expansion

of the universe is not flawed, astrophysics has had to introduce a new Lambda anti-gravitational ‘force’ which most theoreticians seem to associate with the Zero-Point energy of the Quantum Vacuum. GTR is a highly abstract (idealized), geometric model which overlooks all the small-scale processes occurring in Nature (described by QM).

The great Russian physicist, and father of the Soviet (‘Layer Cake’) Hydrogen Bomb, Anatoly Sakharov had suggested in the 1960s that Gravity was not a fundamental reality but rather a gross, collective phenomenon rather like a pressure. In Milo Wolff’s holonomic wave model of the electron, gravity appears as a secondary phenomenon to the primary electromagnetic activity in a manner resembling Einstein’s space-time curvature model of the Gravity phenomenon. Thus if in mystical union, the individuated consciousness dissolves into the underlying flow of electric energy waves, it is in effect dissolving into the singular, primary principle of modern Physics, electromagnetic energy. In fact we are told in *Electric Fields of the Brain* that the magnetic component is not of much significance in brainwave activity [N&S]. We have seen that Physics is not Ontology, it models spatiotemporal patterns of energetic activity (the regular behaviour of phenomena) rather than describing Reality-in-itself. This is not the place to discuss the relationship between Energy (the dynamic activity of the underlying Reality which QM relates to wave frequency) and its substantial basis in the vibration of the underlying Pure Consciousness which is in itself undivided and One. This distinction underlies the paradox of the dual aspect of the Divine Ground as Unmoved Stillness and Creative Temporal Flux. This brief overview should allow the reader to begin to appreciate that, unlike Science and Western philosophy, Indian yoga-derived metaphysics is not limited to human mental constructions or phenomena but actually is based on direct apprehension of Reality as it is independent of human mentation!

Notes to Chapter 1:

Note 1.

This reminded me of the concern voiced by the famous physicist Enrico Fermi in 1945 that testing of the world’s first atom bomb might ignite the atmosphere, leading to a chain reaction that would kill all life on Earth.

Note 2.

We shall see later that Indian ideas of the vastness of Time (historical and cosmological) played key roles in Renaissance challenges to Biblical mythology regarding the age of the Earth and Biblical and Greek myths of a universe extending only as far

as Neptune [WA]. During the Age of Reason, Indian notions of progressive reincarnation through ever more complex forms played a key role in the origin of the notion of Biological Evolution in France [RS]. Hindu tolerance of other religions with its lack of religious persecution and violence amazed Europeans and deeply influenced the new Religious Tolerance in early modern Europe [GS].

Note 3.

Joseph Campbell wrote that in Ficino's translation of *Corpus Hermeticum* the symbols of the Christian cult which went back to the pre-Christian Classical period were re-interpreted in terms of Hermetic rather than Mosaic mythology. Whereas the Mosaic interpretation is Literal, the Hermetic interpretation is Symbolic [TMTT].

Note 4.

The 18th Century Bengali *sakta* poet Ramprasad Sen, following no doubt earlier precedents in the Indian tradition, wrote of the difference between learning of the sweetness of sugar and actually tasting it as a metaphor for spiritual experience [APS/V]. This was obviously long before the Sallie King to whom Richard King attributes the same distinction between indirect knowledge and actual experience in regard to the taste of coffee [O&R].

Note 5.

I do not accept the Eurocentric label of 'First World War' for the 1914-18 European conflict which was restricted primarily to Europe with some minor secondary theatres such as Arabia.

Note 6.

The brainstem Reticular Formation was widely known as the only brain centre whose loss eliminates all forms of Consciousness. More recently the thalamic nucleus intralaminar nucleus (ILN) closely associated with the brainstem Reticular Formation has also been discovered to be essential. This does not affect my Reticular Activating System brainwave correlation of Pure Consciousness. Input to the two (bilateral thalamic) ILN includes a large fraction of the ascending brainstem Reticular Formation the ILN appears to be part of the same basic brainstem-thalamic system [T2p240].

Some of the Groundbreaking Historical Firsts Achieved in the Metaphysical Writings* of Sutapas Bhattacharya

(*Includes my 1999 Indian publication as well as this new book)

1. I am the first person in human history to have identified a specific, scientifically well-established, ***physical correlate of Consciousness***, indeed of the so-called Pure Consciousness itself. At a stroke, this epoch-making discovery **undermines the Physicalist ontology of Modern Science** and lays the foundation of the New Age reversing the Modern Age's De-spiritualization or 'Disenchantment' of Nature.
2. I am the first man in human history to have identified the ***physical correlate of a truly spiritual phenomenon***, indeed the central element of all True Spirituality itself, the Divine Light! This phenomenon is also known by many, *mystique-laden* names, some extremely well-known, others not so including the following:
Cit (Pure Consciousness), *Atman*, The Godhead, Buddha Nature, Holy Spirit, *al Haqq* (The Reality), The Archetypal Light, The Uncreated Light, The Eternal Flame, The Divine Spark, *Prana* (The Life Energy), The Philosophers' Gold, *Sofia* (The Cosmic Light of Wisdom), The Inner Light of Conscience, The Inner Light of Christ, The Christ, The Christ Consciousness, The Fount of All Wisdom, *Prajna* (Luminous Wisdom-Consciousness), The Holy Grail, The Elixir of Life, The Water of Life, The Fountain of Youth, The Clear Light of Death, The Near-Death Experience Light, The Living God, The Stream of Consciousness, The Absolute or the Temporal Consciousness, The Light of Life,

Saksin or the Witness Consciousness, The Hidden Observer, The Subliminal Self, The Heart or the Innermost Self, The Inner Man, The Twin of Mani

At a stroke, this world-changing discovery **undermines the Dualist religious mythology of Theism** (that God and Man or Spirit and Nature are totally distinct in essence and incapable of mystical union).

3. I am the first person to have given a clear, science-based resolution of the central problem of Indian and most other Eastern Philosophies; the nature and significance of Mystical Union (*Moksa, Nirvana, Satori*).

4. I am the first person to resolve clearly, in a science-based manner, the fundamental philosophical problem that has plagued modern Western Philosophy of the Ontological Status of Consciousness or of how Consciousness is related to the so-called Physical World (often referred to misleadingly as the 'Mind/Body Problem').

5. I am the first person to give a clear, science-based explanation undermining the dogmatic Kantian belief assumed by mainstream Western Philosophy that it is impossible for human beings to attain a **Third Mode of Knowledge** or an **Unmediated or Direct Perception** transcending Sensory Phenomena to apprehend **Metaphysical (Noumenal) Reality** in itself (or to experience the Divine in this mortal life).

6. I am the first person to clearly **integrate or synthesize Natural Science and Spirituality and Mysticism**. Many people think that this is impossible! My work does not concern the mere pointing out of vague parallels between mystical philosophies and arcane ideas from the New Physics far removed from everyday experience#. My physical correlate of the Central Element of all True Spirituality is a well-established, simple scientific fact, known to all Medical doctors. Combined with my explanations of Space-Time Transcendence, Transcendental Causation, the emergence of the so-called Laws and Constants of Physics, numerous other philosophical arguments (including interpretations of Paranormal Phenomena in my 1999 book) and explanations of mythological metaphors for mystical states (in this book), the reader is left in little doubt that Science and Spirituality have been integrated.

#Nor is my work just self-aggrandizing, error-laden, 'pop philosophy' as, for instance, Ervin Laszlo's *Science and the Akashic Field* in which Laszlo asserts falsely that he revealed to humanity Universal Interconnectedness and he Laszlo should be ranked alongside Einstein, Darwin and Newton. Yet such books are endorsed by Larry Dossey, Deepak Chopra and other 'usual suspects' of US New Age celebrities.

7. I am the first person to establish the **One True Ontology** integrating, Science, Spirituality, Mysticism, Eastern and Western philosophies into one coherent whole based on the **Primacy of Consciousness** – demonstrating that Matter is a derivative product of human perceptual and conceptual abstraction of stable energetic forms. Although this so-called 'Perennial Philosophy' or *Sanatana Dharma* (Eternal Truth) is not a new idea, only I have taken such Universalism beyond the vague, ambiguous and misleading notions of other writers and resolved the actual True Ontology. This includes the dismissal of alternative ontologies (an argument by elimination), my identification of the Physical Correlate of Pure Consciousness and the metaphysical interpretation of Quantum Mechanics demonstrating that it points to a deeper Transcendental ontology including the Wave Structure of Matter. The latter, including the ('Holonomic') Dependent Co-origination of all phenomena (wherein each particle is created by waves from the rest of the universe), as in the work of my acquaintance physicist Milo Wolff, can account for the emergence of the Laws and Constants which Physics assumes without explanation. As indicated in my 1999 book, this ontology also accounts for paranormal psychic phenomena.

8. I am the first person in history to truly integrate Eastern and Western Philosophy making a mockery of mainstream academic mythologies of Relativism, Social-Constructivism and Incommensurability of ideas from different cultures (*See Point 12*). The Divine Light is central not only to Hinduism and Buddhism but also to Platonism, Hermeticism, Gnosticism, Christianity**, NeoPlatonism, Islamic Sufism, amongst other traditions. Indeed the true meaning of *philosophia* as in Plato (the mystical basis of which was suppressed by Western Classics) was Love of (the Light of) Divine Wisdom. Once this is established it is easy to show the correspondence between the Parmenidean *Nous* and the Upanishadic *Akasa* and other parallel notions. By identifying these notions with scientific concepts one establishes a deeper common core Universal Metaphysics. The philosophies of Husserl, James, Heidegger, Existentialists, Jung, Whitehead and Transpersonal Psychology are based on this same Phenomenological basis. The false interpretations and dismissals of Consciousness, Mysticism and Transcendence by Materialist and other philosophers and the false status of the Judaic deity Yahweh are exposed by critical analysis, examination of facts and deconstructing philosophical sophistry including exposing the tacit appeals to Magic made by mainstream scientists who expound 'Emergent Materialist' mumbo jumbo.

20th Century Jesuit Bernard Lonergan wanted to shift Christian Philosophy from Speculative Metaphysics to the Dynamics of Consciousness starting with Divine Light leading to the Whole Universe. This would base notions such as Sanctifying Grace on actual experience. As usual no acknowledgement was made that this was the ancient Vedantic approach which first reinterpreted Theology in terms of the Transformations of Consciousness 3,000 years earlier – but it demonstrates that open-minded Christian theologians accept the validity of the Vedantic philosophy as Universal. **9. I give by far the clearest explanation of what Transcendence of Perceptual Space and Time actually means. Indeed, this is made possible by the fact that the Flow of the Inner Light of Pure Consciousness (*a.k.a.* Husserl’s Absolute Consciousness or Time Stream; James’ Stream of Thought) constitutes the ‘Time/Space Matrix of Perception’ corresponding to Kant’s notion of Space and Time (and Causation) being *a priori* or innate concepts in human understanding.

10. I am the first to explain in clear, scientifically valid and epistemologically consistent, arguments how it is possible for Phenomenological introspective investigation to lead to profound Ontological and Cosmological insights and disclosures. **No other philosopher that I know of even attempts to explain this seeming paradox.** Carl Jung claimed that Indian Philosophy had over-reached itself in making grand cosmological claims based on exploration of psychic processes. Indian thought was, claimed Jung, “Pre-Kantian”## (i.e. ignorant of the epistemological limits to human knowledge – *see also Point 5*). Most people not familiar with mystical states would be sceptical about such claims and correctly so unless one can give a clear epistemological explanation – as given in my Chapter 10 “*Sanatana Dharma as the True Ontology*”.

We shall see that, *contra* Eurocentric History of Science scholars, the Western successes in Natural Sciences were actually based on metaphysical immaturity and that 21st Century Postmodern Maths, Physics, Cosmology and Cognitive Science are more in tune with Indian metaphysics rather than Greek.

11. I am the first to give clear scientific-knowledge-based interpretations of Perennial Spiritual Wisdom which is often expressed in arcane or mythological language. My RAS brainwave correlate of Pure Consciousness explains the Perennial identification of the Pure Consciousness with Life Energy; it explains why the Conscience is the second self or Witness that knows all of our thoughts. My work helps explain Perennial myths of The Stream or Fountain of Divinity, Resurrection, Spiritual Baptism, the Virgin Birth, Son of God, Fount of All Wisdom, the Elixir of Life, the Fount of Youth, Why we must be Born Again to See the Kingdom of God, why we go before God ‘Naked’, why the Moment of Death is said to be a supreme opportunity for Enlightenment (or supposed ‘salvation’).

12. My work undermines the **pseudo-scientific, anti-Perennialist dogma of Constructivism** that dominates contemporary studies in Comparative Religion and Mysticism studies. I demonstrate that there is in fact a **well-established Unmediated (Brain) Mental process – it is also Universal** (the same in all humans); the RAS – which Medicine also knows is the prerequisite for all forms of consciousness and distinct from the content of consciousness.

13. Similarly, my work undermines the claim of the Existentialists that human beings cannot escape the limits of human egoic being to *Dasein* or the Life-World created by sensory knowledge. Given my RAS-brainstem correlate of Pure Consciousness, one can understand how Enlightenment involves a retreat from the cerebral cortex ‘Lifeworld’ of the waking ego – leading to what Eugen Fink called a sort of ‘**Unhumanization**’.

14. My work explicates the common core dogmatic, doctrinaire beliefs of the 3 Semitic religions and also the fact that these actually originated in Zoroastrianism. Given my scientific re-interpretation of spiritual facts concerning Time and myths such as Resurrection, it becomes clear why all 3 Semitic Monotheisms are untenable soteriological superstitions. They all project mystically-experienced spiritual transformations onto crude and childish Materialistic mythology involving Spirit/Nature Dualism, Bodily Resurrection of the Faithful, the Ending of Time as meaning the End of Earthly History, and imaginary sensual Afterlife existence. Even worse, these superstitions are all combined with the Exclusivist belief in one’s own sect’s beliefs being the ‘One True Faith’ which results in Religious Hatred, Persecution, Violence and Ignorant attachment to unscientific superstitions.