

A New Approach: Cognitive Bit Based Quantum Super Computer

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Abstract:

We study a new dream conception of three Q-bit-system of quantum super computer produces naturally under physical universe i.e. a "Tertiary Q-Bit System, produced by ± 1 & 0" of charge or charge-like bosons & neutral bosons of $SU(6)$ & $SU(2)$ under SUT theory of $SU(11)$, a Revised Theory of Standard Model of Physics. Encoding information with creating different ordered sequences then manipulating cognitively by local & nonlocal consciousness extremely created the conscious dynamical body-systems as human or lives within the physical universe, a conscious mother dynamical body-system [considering physical universe is an individual self-conscious dynamical body-system as like as human, we will construct similarly a self-conscious quantum super computer in future], which then unfolding or expanding or developing like human by dark energies through phase changing system by continuously creating & storing information through entanglement with existing & incoming data, randomly creating then various manipulating sequences by the combination of different kinds particle-antiparticle energy waves, entangled particle-waves & resonating vibration-waves with their superposition maintaining the wave-wave-particles choosing with quantum dots at the highest point of amplitudes through wave function collapses etc. Exactly there produces two different identities within the closed mother body-system of physical universe (like as water decomposed into hydrogen & oxygen), the universal spirit stuff (based on wave-frequencies) & physical stuff (based on lumps of matter) including with infinitely different categories of other individual bodies with soul stuff (subset of spirit-stuff) & individual close-bounded physical stuff (based on soft matter), but no such separate identities can possibly exist beyond the unfolding physical universe (involving with birth-death process) except the existences of eternal cognizance or super power creating by energy fluctuations of different unified energy groups as explained in my previous articles which are responsible for unfolding everything including the physical universe or infinite number of multi-universes, all are also dynamical close body-system. The physical stuff were created by lumps of matter in the large scale body-system and by soft matter in small scale connecting by encoding-decoding sequences with cognitive manipulation through dark energies, then formation of Black-holes, Dark-Matters, Galaxies, etc. by arrow of time in the case of celestial objects and an interference pattern for DNA, then Protein Chain with creating different body-parts of the closed-body-system of lives constructed randomly by changing the inorganic & organic matter particles reacted chemically & physically with forming by simple to compound elements etc. Considering the appearances of life was possible after unfolding & activating the functioning of strong neutral currents producing through photon-like 5-neutral boson-particles of Z^0 -type interacting with other 30-number of charge-like bosons of new energy sources of $SU(6)$ under SUT theory of $SU(11)$ in the framework of $SU(6) \times U(1)$ including with unfolding the weak neutral current formed by Z^0 -boson of weak energy source $SU(2)$ of GUT $SU(5)$ in the framework of $SU(2) \times U(1)$ [it was originally proposed by A Salam & S Weinberg, they explained a weak electromagnetic current flows were produced between neutrinos of Z^0 & W^\pm]. Those are then constructed energy packets combining with different kind of micro-wave frequencies under an electromagnetic interactional force-fields within the closed dynamical body-system, as a result, it is then possible to create like thoughts, emotions, angry, love, etc. after with cognitive manipulation of encoding-decoding of information carrying sequences of wave frequencies within the packages through local consciousness combining with nonlocal consciousness creating under other new energy sources as $SU(12)$, $SU(24)$, $SU(48)$,etc. which are all interacting with $U(1)$ in their respective framework of $SU(12) \times U(1)$, $SU(24) \times U(1)$, $SU(48) \times U(1)$,etc. incoming from outside the body-system of 10-dimensional physical universe through holographic way.

Keywords: New Energy packets, Multiple-Q-bit unitary systems, Generalized Gaussian Energy Group, Gauge field theory of $SU(11)$, $SU(6)$, $SU(5)$, $SU(2)$, $U(1)$ -Magnetic-Monopoles, Lattice formation, Polyakov- Loop with principle bundles, Wilson loop theory, Weak & Strong coupling

regime.

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I. Introduction:

Assuming that new energy source SU(6) appeared by the symmetry breaking of unified group SU(11), created a kind of new force, maybe called as 5th force other than strong, weak, electrodynamics & gravitational forces of standard model of physics can developing a new era of physics & also there possible to formed naturally a conscious quantum super computer, like humans. It was also confirmed by LHC, Fermi-lab etc. that there was possible to exists a new kind of force-field beyond Standard Model of physics, they referred to called as 5th force, as explained details in my published articles, the new energy source SU(6), creating latent force that's are potentially so strong that can change the exotic matter fluids into ordinary matters after appearing the phase-changing situation. We noticed how developing or upgraded the series of classical computer as well as quantum computer with respect to the modern age. I think that, it is to be possible to develop a self conscious quantum super computer in future constructing on the basis of Q-bit system of cognitive manipulation through encoding & decoding sequences as like as human can understanding everything consciously. We know that Q-bits or Quantum Bits are the fundamental building block of quantum information processes. The classical or the conventional computer stores and process data as like by the series of '1's and '0' of binary systems. In Quantum computers, uses the properties of quantum system, such as the polarization of photons or the spin of an electron, superposition of waves, property of entanglement etc.

The real quantum computer have not yet been build, it is nevertheless worthwhile to simulate quantum computation on a classical computer. Among two equivalent models of quantum computation—quantum Turing machine and the circuit model – the last one is more convenient both for simulation and application.

The circuit model of quantum computation was introduced first in a classical computer that can be considered as an electrical circuit made up by wires and logical gates. The wires are used to carry information within the circuit, whereas the logic gates perform manipulations of the information, converting it from one form to another. This circuit model obviously compared with neural flow within a human body-system like to be in a quantum super computer. Note that inside a classical computer any information was encoded into a sequence of bits which are the elementary units of information. Any complex logic operation can be represented as an ordered sequence of some elementary logic gates which can act on a single bit or pair of bits. Using by special notation for these gates, one can easily visualize a circuit and clearly shown the structure of computations. Thus, the circuit model turns out to be a very convenient and realistic for many applications and is widely used in computer science. A quantum circuit is constructed in a similar way and may be represented as a sequence of quantum logic gates acting on the Q-bits which are the elementary units of quantum information.

Quantum information is represented as a sequence of quantum bits or Q-bits. A Q-bit is a two-level quantum system that can be prepared, manipulated and measured in a controlled way. The state of a Q-bit is denoted as $|a\rangle$ corresponding to the standard Dirac notation for quantum mechanical states. Two possible states for a Q-bit are usually denoted by $|0\rangle$ and $|1\rangle$ which correspond to the states 0 and 1 for classical bits. But in contrast to classical bits, Q-bit as a quantum system may exist not only in one of the states $|0\rangle$ or $|1\rangle$ but also in different state of $|a\rangle$. Which are then a superposition of these states $|a\rangle = D |0\rangle + E |1\rangle$, where D and E are complex numbers constrained by the normalization condition $|D|^2 + |E|^2 = 1$. Thus in more generalization, the state of Q-bit may represented by the vector $|a\rangle$ in the two or more-dimensional complex vector space or tensor space, where the special states $|0\rangle$ and $|1\rangle$ form an ortho-normal basis and are as known conventional computational basis states otherwise it can be found by an extension of binary Q-bit system replaces to Tertiary Q-bit system to the quantum super computer where using the bits are as changes to charges like bosons of '+1', '-1', and neutral boson '0'. Here the neutral bosons is just like as photon and does it interacted with other bosons creating new kind of electromagnetic force-fields in the framework of $SU(6) \times U(1)$, considering it produces local consciousness as well as with creating mind in the framework of $SU(2) \times U(1)$ by SU(2), the weak force under SM. Thus, a set of 'n' Q-bits could formed a quantum memory register, with respective to the framework of $SU(6) \times U(1)$, $SU(12) \times U(1)$, $SU(24) \times U(1)$,.....etc. by local & nonlocal consciousness, where we considered the input data and any intermediate results of computations are to be held. Where two-Q-bit model can be derived from SU(2)-symmetric of 2×2 Hermitian matrices of zero trace under the theory of GUT of

SU(5). Which can approaches to the new higher- dimensional Hamiltonians to developing more complex exactly solvable of interacting Q-bits models that can derived by SU(6)symmetric of 6×6 Hermitian matrices under SUT theory of SU(11) & similarly can introduce others by higher-dimensional symmetries.

It will also been shown by a diagrams as a column of states of the form $\langle a_x \rangle$ ($x = 1, 2, \dots, n$) from which quantum wires may started. Although a quantum circuit does not contain any wires as such, the term "wires" is merely used to show evolution of Q-bits acted on by various quantum gates.

Time-Independent and Time-Dependent Model:

The Standard Model (SM) is unified physical theory that describes three of the four fundamental forces, the strong, weak nuclear forces and the electromagnetic force. The predictions of this theory have been extensively tested experimentally with great accuracy also It is on the basis of Mathematical Gauge Group Theories, in particular to the $SU(3) \times SU(2) \times U(1)$ group was unified to the group SU(5). We need to an extension of standard model of physics for the clarification of consciousness, dark energies etc. As such, we introduced a new theory of Super Unified Gauss Group $SU(11) \supset SU(6) \times SU(5) \times U(1)$ in the present epoch, a special unitary group. We thus introduced a series of new energy sources called Generalized Gaussian Energy Groups (GGEG) in connection with gaseous-like phases of universe, so called vacuum or nothing beyond SM.

The unitary group SU(2) symmetry of a single two-level system, a "Q-bit", is well-known and exploited widely; not just in quantum information process, but throughout the field of physics. It is taught in the very first courses on quantum spin - 1/2.

The SU(2) symmetry, is exactly solvable in both time-independent and time-dependent cases. The potential for applying this approach to the higher-dimensional Hamiltonians to develop more complex exactly solvable models of interacting Q-bits, is also maybe highlighted such as here we considered the SU(6) symmetry model. Using the formal, general form of related time evolution operator, the time dependence of the entanglement level for certain initial conditions has already examined within the Rabi and Landau–Majorana–Stückelberg–Zener scenarios.

In quantum computing, beyond implementing Q-bits correctly, it is crucial to initialize and measure them with precision. This is where quantum control becomes essential. Quantum control Hamiltonians, which are time-dependent and characterized by external driving forces, assuming which may created by the energy sources of the group SU(6), that's are possible to designed & manage on the basis of Q-bit dynamics. Identifying exactly solvable single Q-bit scenarios, where the time evolution operator of time-dependent Hamiltonians can be analytically derived, is crucial. Numerous mathematical approaches may have been developed to tackle exactly solvable two-level dynamical problems with given the general difficulty of solving the Schrödinger equation with a time-dependent Hamiltonian. Among these, the Rabi and Landau–Majorana–Stückelberg–Zener (LMSZ) scenarios are particularly notable for their extensive applications in physics. It is broadly relevant, as analytical solutions for single two-level systems have been helpful in more complex systems without spin variables, and similar approaches have been used to solve the non-Hermitian two-level dynamical problems.

Thus, in many-Q-bit scenarios, however, the coupling between different effective two-level systems (TLSs) cannot be ignored in contexts like quantum computation, tuning the interaction between TLSs is essential for using quantum logic gates that generate entangled states with a high level of entanglement, which is a key resource in quantum computation. Investigating more complex models comprising many interacting Q-bits, which can be analytically treated to obtain exact results, is then relevant as well. For this reason, significant attention has been given to the simplest to complex many-Q-bit system of two and higher-Q-bit scenario. This involves two TLSs interacting either directly (through exchange, Heisenberg and Dzialoshinskii–Moriya (DM) interactions) or indirectly (**via photon-mediated interaction**) such as, we are trying to consider the attempt by **photon-like interaction of SU(6)** in the present epoch from the stages of super string theory under the symmetry breaking of super unified group SU(11).

This focus is evidence by the extensive research requires on quantum gates like consciousness and hence, obviously needed a revision of standard model of physics. If we considered with accepting the new SUT theory of SU(11), where clearly explained, how consciousness appears through new energy source of SU(6) as well as nonlocal consciousness by SU(12), SU(24),...etc. in a holographic way, with creating different kind of new electromagnetic force-fields respectively in the framework of $SU(6) \times U(1)$, $SU(12) \times U(1)$, $SU(24) \times U(1)$etc. Mainly considering on the basis of

energy group $SU(6)$, which contains 5-neutral bosons just like as photon but assumed these are interacting directly with three-level-systems and operational protocols in two-Q-bit or three Q-bit systems with cognitive manipulation across the various platforms under Super Unified Gaussian Theory of $SU(11) \supset SU(6) \times SU(5) \times U(1)$, where $SU(5)$ is GUT unified group of SM.

Developing strategies to solve the dynamical problem of three-Q-bit system of time-dependent Hamiltonians, in order to fully control the dynamics of three interacting Q-bits, which are essentially requiring for future development of mankind. For example, originally the two-Q-bit problem is decomposed into two independent single-Q-bit sub-problems related to two dynamically invariant subspaces of Hamiltonian symmetry with its constant of motion. Thus, by leveraging exact solutions for single-Q-bit scenarios, exact solutions for the two or three-Q-bit problem have been derived by revealing physical effects in both closed and open systems. Nevertheless, other exactly solvable and analytically treatable two-Q-bit models, presenting no constants of motion, can exist. This new idea was presented a general time-dependent three-Q-bit system as well as two-Q-bit Hamiltonian model without integrals of motion, whose time evolution operator can analytically derived. Hence our present dissertation is to study the utilizing lie group theory, particularly focusing on $SU(6)$ & $SU(2)$ groups of SUT theory. By exactly solving the dynamical problem we must be investigating by an exact time dependence of the concurrence (which measures the level of entanglement between the three Q-bits) in three scenarios: time- independent, Rabi, and LMSZ. It could demonstrate how the controlled generation of entanglement is achievable both periodically and asymptotically in adiabatic as well as non- adiabatic regimes in the early universe beyond SM of 4 -dimensional universe. It was observed mathematically by considering a complex space-time as $R + iR_1$ type of $(4 + D)$ -dimensions comparing with Kaluza-Klein cosmology and constructing the Wheeler De-Witt equation then solving, we found an interesting result, that our so called physical universe was actually unfolded with 10-dimensional space-time in large scale considering with producing exotic matter fluids is nothing but a dynamical close-body-system like human after the symmetry breaking of SUT $SU(11)$ instead of 4-dimensional Einstein's universe. It was shown mathematically that $(10-7)$ -dimensional flat universe no adiabatic stages was possible due to the flatness of the physical universe then closed and arising adiabatic stages, the thermo-dynamical laws are then applicable. Thus finally, it is to be significant that the aforesaid method of demonstration for three-Q-bit cognitive systems are practically possible with these new approaches towards the development of future quantum super computer using higher-dimensional Hamiltonians. Therefore, this approach allows for the development of exactly solvable Hamiltonian models describing the dynamics of more complex systems involving multiple interacting Q-bits or, the more generally, Q-dits.

Again, the present approach has to be developing the unitary time evolution of two or more Q-bits system in order to study quantum correlations by exploiting the relevant Lie algebras and especially, sub-algebras of the Hamiltonians involved.

Again, researchers have arrived at connections to finite projective geometries and combinatorial designs. Independently, geometries, by studying projective ring lines and associated finite geometries, may have come to parallel conclusions. Present dissertation may bring together the Lie-algebraic/group-representation perspective of quantum physics and the geometric-algebraic one, as well as their connections to complex quaternion. Altogether, this may be seen as further development of Felix Klein's Erlangen Program for symmetries and geometries. In particular, we have thirty-five generators of the continuous $SU(6)$ Lie group for three Q-bits system can be placed in one-to-one correspondence with finite projective geometries, combinatorial Steiner designs, and finite quaternion groups. The very different perspectives that we consider may provide further insight into quantum information problems. Extensions are considered for multiple Q-bits, as well as for higher-spin like or higher-dimensional Q-dits etc.

We will consider two or more Q-bits and also higher-dimensional "Q-dits" of dimensions $(4 + D)$, larger than four. These require higher unitary groups, for Q-bits or $SU(5 + D)$ for a single Q-bit. Whereas the $SU(2)$ group, and the corresponding $SU(2)$ algebra (we follow the convention of using upper case for Lie groups and lower case for Lie algebras), involve three generators and parameters, the higher groups deal, of course, with many more such as $SU(6)$ involve thirty five generators. The Lie groups $SU(6)$ are therefore applicable, for two Q-bits, three Q-bits or many Q-bits of my theory, involving 35-number of bosons and parameters. In part, one can normally these larger numbers may have deterred the use of this group but we need to bound, hence this assumption through new theory are need to essential for using the future development of quantum computer for mankind. We need more research in this respect, the consideration nevertheless proves useful, especially since smaller sub-groups of them often come into play for the physics and then symmetries are required for the system of interest for future generation.

A wider context for our discussion is provided by the famous 1872 Erlangen Program of Felix Klein. Instead of the centuries-old view of geometry as a set of axioms that defined points, lines, triangles, and circles—as well as theorems relating to their properties—Klein reinterpreted geometry as the study of symmetries and their associated transformations; each such set then defined a particular geometry. Euclidean geometry is just one kind, which stems from Euclidean transformations in a plane. This re-orientation and focus onto geometries in the plural, each associated with a set of symmetries, has had a profound effect on mathematics and physics ever since. Coupled with Emmy Noether's theorem applicable for continuous symmetries, which associates each symmetry with a conservation law (i.e. an invariant of that symmetry group by different transformations), the most fundamental laws of physics—namely, the conservation laws of linear and angular momentum, energy, charge, etc.—place symmetries at the heart of physics. However, there are an infinite number of others, such as Gaussian energy transformations, each of which depend upon the different symmetries with different transformations under unification and which are initially specified properly and hence at present, we introduced a series of new energy sources called Generalized Gaussian Energy Groups (GGEG), which will specifically confirmed the future development of mankind.

Again, Higher Dimensional Spins Increasingly, spins larger than $1/2$ being explored for applications in quantum information. As is well known, entanglement measures, such as concurrence and negativity of the partial transpose.

The effective action of the $SU(N)$, Polyakov-loop model in the strong coupling region and in the static limit for the quark determinant of $SU(3)$ under $SU(5)$ as well as considering quark-types but lepton-likes of $SU(6)$ under the theory of $SU(11)$ in weak coupling region can be mapped onto the Ising model in any dimensions will be valid, where we considering the Ising variables are also attached on the links to the lattice formation under $SU(11)$ instead of $SU(5)$ in the frame work of $SU(11) \supset SU(6) \times SU(5) \times U(1)$ or $SU(11) \supset SU(6) \times SU(3) \times SU(2) \times U(1)$. So, we therefore using this reformulation theory to study the same within finite temperature from 6^{th} & 5^{th} dimensions beyond 4-dimensions, $SU(6)$ lattice gauge theory at finite energy density in the weak coupling region when quark-types but lepton-likes were formed by exotic or colloidal particles with tightly binding by the bosons of $SU(6)$ with then immediate symmetry breaking of the GUT of $SU(5)$ by influencing the energies of $SU(6)$. The conventional quarks in the strong coupling region of Einstein's 4-dimensional universe are tightly binding by the bosons of $SU(3)$ formed ordinary matter particles whereas quark-types but lepton likes in weak coupling region of 10 -dimensional universe are tightly binding by the bosons of $SU(6)$ under SUT theory formed exotic or colloidal particles. Considering the strength of weak force are more strong beyond the Standard Model but under SUT and was also there increased the densities of magnetic monopoles produces by streaming of $U(1)$ possible after the symmetry breaking of $SU(11) \supset SU(6) \times SU(5) \times U(1)$.

The above statement are obviously confirmed by the Monte Carlo methods in lattice gauge theory (LGT) by another way, of the consideration of Wilson loop, which have been fruitful in the past couple of decades for advancement of super-computers and algorithms. However, problems involving dynamics such as out-of-equilibrium, the evolution in the early Universe of quarks-types colloidal stages, transport coefficients of the quark-gluon plasma and Parton physics in hadrons collisions, present sign problems, as the Boltzmann weight becomes complex valued. We thus expected the future, large-scale quantum computers can avoiding these obstacles by performing real-time simulations in the Hamiltonian formalism by considering the new theory under Super Unified Gaussian Group $SU(11)$.

Human Being A Tertiary Q-Bit Quantum Super Computer:

Streaming of strong magnetic monopole by $U(1)$ was possible after symmetry breaking of $SU(11) \supset SU(5) \times SU(6) \times U(1)$, then condensed & appearing the dynamical-close-body-system of physical universe from vacuum energies with manipulating the encoding sequences, which was expanded & contracted like as human life-span of dynamical-body-system, influencing by dark energies through phase transition system. Initially produces much more exotic matter fluids or colloidal solutions such as for developing the lumps of matter in large scale for the formation of stars, galaxies etc. & soft matter in small scales with consciousness for manipulating the sequences of encoding-decoding information for the appearance of humans or any other living body-system respectively. It is to be noted that the wider universe i.e. actual universe never created nor destroyed, eternally it was filled with new energy sources as explained in my articles, where we are just like as a fish in water-like energies-ocean. Hence, wider universe never expanded nor contracted except the changes of different symmetries including with different energy pressures. It is an infinitely large, filling with new energies, an ocean with creating different frequencies & amplitudes of energy

micro waves-lengths. We found **Wilson Loop expectation in the field of weak & strong coupling regime** with lattice formation by gauge field theory under SUT of SU(11), a special unitary group, with respect to the gradient flow from finite to zero Polyakov Loop created then principle bundles of strings etc. appeared or unfolded after symmetry breaking of SU(11) at 10 - dimensional super gravity or super string theory with immediate symmetry breaking of 4-dimensional GUT of SU(5). Assumed to be a nascent stage of confinement with arising the weak coupling region from the symmetry breaking of SU(11) then gradually unfolded the strong coupling regime after with symmetry breaking of Unified Gaussian Energy Group SU(5). Then coarse graining through Bose-Einstein's condensation with compactness, where the strong densities of magnetic monopoles were created by the central symmetry group U(1), once created do not destroyed anyhow, continuously then created different solid dynamical individual-matter body-system after changing the physical and chemical properties of inorganic & organic compound elements etc. and all other small individual dynamical conscious close body-system like human were created within the mother body system of physical universe, a big conscious dynamical body-system, assuming all are these interconnected by a common network broadcasting system through local consciousness with cognitive manipulation of encoding- decoding sequences of existing & incoming information. Large numbers of magnetic monopoles are then generated in the confinement phase. Since the monopole is a kind of topological quantity, the number of monopoles does not change much by coarse graining. We observed the field strength decreases with gradient flow without affecting the confinement properties.

We now considering the working proceeding of human-brain or any other conscious body-system comparing with quantum super computer are as likely to be the same, as we assuming with tertiary Q-bit-system as '+1's, -1s and '0's forming by the boson particles & antiparticles with neutral boson particles instead of conventional binary system 1's & 0's, the third bit like Z^0 are formed by photon-like neutral boson are assumed to be associated with cognitive manipulation of information encoding-decoding sequences just like as quantum gates which are therefore playing an important role within the microtubules or thalamus or any other places of human brain or other lives, where the brain is just like as quantum processor only. A kind of quantum dots were created by quantum superposition, considering as responsible for carrying & storing of incoming with existing information with their manipulation through mutual interaction and sharing its information through the entangle particles constructed by 15-pairs of different bosons i.e. 30- number of new kind charge-like bosons of SU(6) in wave status interacted with its 5 number of photon-like neutral bosons including all other quantum wave-particles and resonating vibration energy-wave particles which are therefore maintaining a network system within the physical universe.

Thus, human body-system are likely to be a quantum super computer, differences are only the living body-system was formed by soft-matter originally from exotic matter fluids in small scale by quark-types (considering there are usually 6-quark-types, each having a bunch or packets of 5 - sub quarks which are then internally rearranged by manipulation through consciousness for any suitable required output)but lepton-likes are tightly binding by the charge-like bosons of SU(6) as hard disk of quantum computer, while neutral bosons creating strong current in the framework of SU(6) x U(1) are as an information-cum-software like signaling-system flowing electricity throughout the body-system of humans called neural flows directly it was controlled by local consciousness as well as human or live brain's capacity considering as Neuro-Plastic. Ultimately then unfolding like a dynamical life-support system of human-like lives with creating a circuit model of neural current flows within the body-system.

The human or a living matter-body system was thus constructed by the combination of elements from zoo of organic compounds mainly based on Carbon & Hydrogen elements together with different electromagnetic energy forces connecting to the pool of energies mainly the neutral bosons of the physical universe, by constructing the set of different kind energy-wave packets produces through interacting by U(1) with 5-neutral bosons of SU(6) & with 1-neutral boson of SU(2) after unfolding the streaming of magnetic monopole through symmetry-breaking of SUT of SU(11), then unfolded Local Consciousness, as well as Spirit-Stuff with Universal Mind of Physical Universe then individual Soul-Stuff with Mind including Emotion, Love, Angry, etc. which are then formed on the basis of micro-wave-frequencies packets under internal combination of various energy waves, resultant wave frequencies, resonating wave frequencies of different wave-lengths & amplitudes etc. forming by photon-likes neutral bosons within the wave-packets as like 'Quanta' of light. All energy packets were formed consciously through cognitive manipulation by wave- frequencies similar as to be comparing with the production of a beautiful song constructed on the basis of Sa-Ra-Ga-Ma-Pa-Dha-Ni of harmonium. It was discussed elaborately in my published articles that how local

consciousness & mind maybe created by $SU(6)$ & $SU(2)$ with respective to the framework of $SU(6) \times U(1)$ under the “Theory of Super Unified Group $SU(11)$ ” and in the framework of $SU(2) \times U(1)$ under GUT of $SU(5)$.

A Higher Q-Bit Model by Using SUT Theory of $SU(11)$:

One can interpret H_4 , which can derived from an $SU(2)$ -symmetric of 4×4 Hamiltonian matrix representation of the generic generator of the energy group $SU(2)$, also can interpret the Hamiltonian H_4 as written in the composite basis of the two Q-bits $\{|++\rangle, |+-\rangle, |-+\rangle, |--\rangle\}$, with $\sigma_z|\pm\rangle = \pm|\pm\rangle$.

It is worth noting that the potential of the aforesaid method used to obtain the $SU(2)$ -symmetric of two-Q-bit model lies then its applicability to more complex Hamiltonians and physical scenarios. For instance, we thus applying the above procedure can derive from $SU(6)$ -symmetric of 6×6 unitary matrix representation under the theory of SUT of $SU(11)$ yields an exactly solvable models for three Q-bit system instead of two Q-bit system i.e. we now introduce a tertiary Q-bit systems by using the framework of $SU(6) \times U(1)$, where the two bits are likely to be as usual are as before and the third bit constructed on the basis of photon-like neutral boson. It was explained details in my theory of $SU(11)$ that we found 35 number of bosons in $SU(6)$ energy group, out of which 30 - number of bosons of $SU(6)$ are changes to 30- number of bosons of GUT $SU(5)$ or vice versa by exchanging the J-bosons of $SU(11)$ and remaining 5-neutral bosons just as photon-like does interacted with other neutrinos-like are assumed to be created as cognitive output. We therefore considering the bosons of energy group $SU(6)$ are plays an important roles for the development of everything within the dynamical close-body-system of so called physical universe as well as all small individual body-system like human.

In weak interaction of $SU(2)$, we have, H have 2×2 Hermitian matrix of zero-trace, we found then three matrices are proportional to the well-known Pauli matrices. It was observed, that in the theory of GUT, the strength of weak force created by $SU(2)$ increases while strength of strong force by $SU(3)$ decreases if we advanced towards the unification of GUT of $SU(5)$, so, in the most general form we can consider the new kind of force created by $SU(6)$, where H has 6×6 Hermitian matrix of zero-trace are potentially very strong strength and hence strongly interacted with others. We thus found thirty five number of matrices from $SU(6)$, which are therefore considered as proportional to the well-known Pauli matrices, out of which 30-numbers were non-diagonal and five are diagonal matrices. Similarly under the theory of $SU(23)$, it is possible to consider the transformation of 132-number of charge-like bosons from energy group $SU(12)$ changes to the 132-number bosons of $SU(11)$ with 11-number of photon-like neutral bosons, the basic energy fields here belonging to another phase, like as gaseous phase transfers to the required vapor-like phase of energy group $SU(11)$, a super gravity or super string stage then unfolded GUT of $SU(5)$, a material like states, it will comparing with Gas-Vapor-Liquid or Solid states of water. The Lattice Gauge Theory's describes an interaction of matter particles through gauge fields. In the lattice case, the matter field was formed by $SU(5)$ reside on the lattice sites, while the gauge fields, mediating the interactions between matter particles in the links with exotic matter fluid under the framework of $SU(6) \times SU(5) \times U(1)$ of $SU(11)$, under SUT theory also formed as lattice. We found many more free energies released from $SU(6)$, $SU(12)$, $SU(24)$,....., which are therefore interacting each other including with $U(1)$ through their individual frameworks of $SU(6) \times U(1)$, $SU(12) \times U(1)$, $SU(24) \times U(1)$,.....etc. We expected the Wilson Loop was constructed in this weak coupling regime beyond Standard Model but under Super Unified Theory $SU(11)$. One can either discredited both space and time, as used by Euclidean Monte Carlo computations, or discredited only space while keeping time continuous, the latter corresponds to the Hamiltonian formulation widely used in the context of quantum simulation and tensor networks.

Naturally Formation of Tertiary Q-Bits System:

The Physical Universe is nothing but a close-dynamical-body-system where Big-Bang just only the situation of phase-change, like as Gas changes to Vapor then Liquid or solid state. The dynamical Physical Universe like human is just like as initially programming body-system of computer hard-disk connected by electricity then continuously upgraded by consciousness like software, it will now comparing with a Quantum Super Computer, where the Q-bits are assumed to be as '+1's', '0's' and '-1's' instead of '+1's' & '0's', the charge-like two bits are associated with construction of matter-body-system are tightly binding by quark-type but lepton-like, whereas the neutral bit, which carrying information, are associated with nonphysical cognitive development with unfolding cognitive spaces of body-system including its physical status as living body-parts for human

or lives, similar like stars, galaxies, clusters, etc. are of physical universe. The third bit was assumed to be used for manipulating the ordered sequences of encoding information and functioning like as quantum gates whereas human brain are as microprocessor-like. Therefore, we assumed that charge bosons are of particles & antiparticles like W^{\pm} working as conventional binary bit-like and like Z^0 -neutral boson playing the vital role as cognitive manipulation with creation of life. In the early stage of the physical universe after symmetry breaking of SU(11), assumed that there was possible to form lattice enthalpy by U(1) by exchanging the exotic matter fluids into ordinary matters, changing 30-number of bosons of SU(6) out of thirty five into 30-number of bosons of the group SU(5) and remaining there 5-neutral bosons of Z^0 type are as free bosons engages to the creation of local consciousness in the framework of SU(6) x U(1) which can form different energy packets containing various frequencies of wave functions are therefore responsible for appearances of living status called life, whereas the elements of organic compounds made by carbon & hydrogen formed the status of living material bodies. So combining both these appears as human or live. Here, 30-particles & antiparticles as like W^{\pm} were likely to be engaged with lattice formation whereas five neutrino-like neutral bosons like Z^0 are responsible to encoding-decoding system with manipulating the complex sequences for cognitive arrangement, hence there possible to creating various type of differently encoding structures such as different DNA, Protein chains, different type of body-parts etc. of the close-body-system of human or different lives within the physical universe and so on. We thus assumed that our particular physical universe was actually appeared from the wider universe, just by appeared through phase-changes situation only called Big-Bang. Imagine, in the early stages of wider universe at Big-Rip singularity, the core spaces of energy wave lengths are infinitesimally small with high frequencies, no such superposition was then possible to create quantum informational process, only there possible to developing the cognitive spaces creating with energy pressures. Gradually then increases its wave-lengths with normalizing the frequencies & amplitudes, hence then possible to conduct limited superposition by low energy waves. So cognitively unfolding an information carrying stages of energies, called informational spaces. Informational spaces may actually unfolded with the symmetry breaking of Unified Group SU(47) in other phase, which then continuing to the symmetry breaking with unified group of SU(23), hence considering the early stages of unfolding physical universe appears with the symmetry breaking of SUT of SU(11). In the similar process we found individual body-system in small scale like human appeared in a particular suitable cognitive situation of stars, planets & environment of physical universe etc. Ultimately we found infinitely many of conscious dynamical body-system within the physical universe, a random system-of-generation appears as individual software like soul-based human & other lives connecting with spirit stuff of the physical universe, a bigger conscious dynamical body-system called mother body-system etc.

Physically Lattice Formation by SU(11):

Finally thus considering, physically lattice-formation was possible under the theory of SU(11) by exchanging the bosons of energy group of SU(6) into SU(5) with immediate symmetry breaking of SU(5) into the subgroups of SU(3), SU(2) & U(1), there are 30-number of new bosons of SU(6) changed to 30-number of bosons of SU(5) by exchanging the J-bosons of SU(11) that means 15-pairs of particles & antiparticles are of wave character of the group SU(6) are possible for lattice-formation including with photon-like neutral bosons continuously interacting for cognitive development of the body-system in the framework of SU(6) x U(1). In the theory of SU(23) it is possible initially in the very early stages that for preparation of phase change then SUT symmetry breaking of SU(11) influencing by SU(12) creating many more different categories of neutral current by neutral bosons of SU(12) for the manipulation of cognitive development which are equally responsible for the construction of space-time close-body-system, i.e. different kind of electromagnetic force-field was then possible to constructed by the framework of SU(6) x U(1), SU(12) x U(1),....etc. including releasing with free energies as vapor ions-like bosons by SU(6), SU(12), SU(24),....etc. So, the formation of ionic-like nascent solid states of lattice-formation was possible under the energy groups SU(3), SU(2) & U(1) after GUT symmetry breaking of unified group SU(5) as well as it may be possible to form Quantum Super Computer in future, just like as conscious human or lives under the SUT theory of SU(11). It was mathematically shown in my articles published in peer reviewed journal of IOSR, that our physical universe is just like a dynamic-close-body-system unfolded with 10-dimensional space-time where (10-7)-dimensional flat universe, no adiabatic stages arises due to the flatness of physical universe after then from 6-dimensions was possible to started the thermo-dynamical stages. Although we believed that our physical universe appeared from something instead of nothing that means the vacuum stages are filled with new energies of different wave-frequencies as explained before. Mathematically, a continuous symmetry

breaking was started from Big-Rip singularity with unfolding cognitive spaces, informational spaces continuing with energy pressures then fluctuation of energy densities appearing the different phases, which then facing different symmetries with their breakings, as a result gradually increasing the energy micro wave lengths with decreasing amplitudes & high frequencies etc. for normalizations the state of equilibriums, then creating superposition & wave function collapses etc. hence, unfolded an informational stages with carrying encoding informational systems. Changing the gaseousness-like to the vapor-like stages from the symmetry breaking of pre-super unified groups SU(23) under the influence of SU(24), finally reaches to the vapor-like or colloidal stages of exotic matter fluid through the critical stages [like as 540 cal/gm for water vapor critical temperature] with symmetry breaking of SU(11), hence found an expected so called 10-dimensional physical or matter universe including with then 4-dimensional Einstein's matter-space-time after the symmetry breaking of GUT SU(5). In this way, we can assumed that an infinite-Q-bit model of tertiary system of natural universe like quantum super computer was unfolded derived from Big-Rip singularity to the Super Unified Group SU(11).

Mathematical Explanation of Super Unified Group SU (11):

We consider a special unitary group of degree n as $SU(n) \subset U(n)$, where $U(n)$ is a $n \times n$ unitary matrices with determinant 1, which is a sub-set of the general linear group $GL(n, C)$, where "C" is a classical lie group. Now, $SU(n) \supset SU(p) \times SU(n-p) \times U(1)$ putting $p = 5$, $n = 11$, where $p > 1$ and $n - p > 1$. Since the rank of $SU(n)$ is $n - 1$ and $U(1)$ is 1, a useful check is that the sum of the ranks of the subgroups is less than or equal to the rank of original group $SU(n)$ which is a subgroup of various other lie group: " $SO(2n) \supset SU(n)$ ". So that $SU(11) \supset SU(5) \times SU(6) \times U(1)$. For completeness there also the orthogonal and simplistic subgroups " $SU(11) \supset O(11)$; $SU(22) \supset U Sp(22)$ ". From the symmetry breaking of SU(11), we find SU(6) and SU(5) as the subgroups of SU(11), where $p (= 5) > 1$; $n - p (= 11 - 5 = 6) > 1$, so that " $SU(n) \supset SU(p) \times SU(n - p) \times U(1)$ ", i.e. $SU(11) \supset SU(5) \times SU(6) \times U(1)$. Thus the rank of SU(11) is 10 and U(1) is 1, a useful check is that the sum of the ranks of the subgroup SU(5) and SU(6) is less than or equal to the rank of the original group. In the theory of Gauss transformation in physics, the special unitary group is used to represent boson symmetries. In the theories of symmetry breaking, it is important to find the subgroups of special unitary group.

We have from SU(11) at 10-dimensional super string, the Hermitian matrix 'H' has 120 arbitrary constants which are correspond to 120 bosons that now mediate between the different basic entities. Out of these we already have 24 from SU(5) and 35 from SU(6) and 1 from U(1). Thus, $120 - (24 + 35 + 1) = 60$ more bosons are needed to make up the list of 120. For want of any specific designation, they are referred to simply as the J bosons. The J-bosons are expected to link the participant of SU(6) with SU(5) i.e. with SU(2), SU(3) and U(1). There is emitted and absorbed anti J-particles according to the conventional conception. We may explain SU(11) in the similar manner are of the GUT symmetry breaking of SU(5). Therefore, in the theory of SU(11), it is possible to change any of 30 (thirty) latent energy bosons of SU(6) into any of the 30(thirty) matter energy bosons of SU(5) or vice-versa by the exchange the J-bosons of SU(11). So at this stage, by the symmetry breaking of SU(11) found an amount of exotic matter energy by the latent energy group SU(6) transferred to ordinary matter with the symmetry breaking of SU(5). In consideration of other unified groups as Unified Group SU(23); Unified Group SU(47) andso on with their interlinks between each other groups can also consider into the present discussion. Thus SU(11) plays an important role including its sub group SU(6) for everything specially for the appearances of life & living body-system with consciousness, mind,...etc. within the same physical universe of the conscious dynamical body-system where all animates are interconnected through network system. In the transformations under energy group SU(6), the basic fields here are the latent energy field and we have $U = \exp(-iH)$, Where "H" is a 6×6 Hermitian matrix of zero-trace. The matrix 'H' now has 35 independent components. In the weak interaction SU (2), we have, H has 2×2 Hermitian matrix of zero-trace and the most general form of such matrix. Thus, like above, we have 35 matrix charges $I_1, I_2, I_3, \dots, I_{35}$ are of SU(6), out of which five matrices are diagonal. Corresponding to this, we have 35 bosons of SU(6). For want of any specific designation, they are referred to simply as J_k . There were no change takes place for exchanging the bosons namely $J_{k3}, J_{k8}, J_{k15}, J_{k24}, J_{k35}$, corresponding to the said five diagonal matrices. We expect the participating interactions of the bosons J_k to have comparable strength. The J_k bosons are expected to generate as latent force. This force is believed to be potentially so large that the exotic matter fluid can expected to transfer into the ordinary matter field and physically constituting like black-hole at the centre region in extreme situation which will evaporate. Similarly we can discuss the energy Sub group

SU(12); Sub group SU(24)... etc. which maintain the same aforesaid process. We thus found a large number of unknown physical & nonphysical new energies which are then directly or indirectly involved with life, consciousness etc. Directly, in the frame-work of $SU(6) \times U(1)$ and indirectly by the respective framework of $SU(12) \times U(1)$, $SU(6) \times U(1)$ etc. by the way of holographic process. We consider strictly the three phases of the Universe such as “Material Universe” means as Liquid & Solid Phase starting from the symmetry breaking of the GUT of $SU(5) [\supset U(1) \times SU(2) \times SU(3)]$, then “Exotic Matter Fluid Universe” means Vapor-like Phase starting with the symmetry breaking of the SUT of $SU(11) [\supset U(1) \times SU(5) \times SU(6) \text{ or } U(1) \times SU(2) \times SU(3) \times SU(6)]$ then “Empty or Vacuum” spaces carrying with information & cognition as Gaseous-like Phases starting beyond SU(11), then found infinite number of symmetries of unified energy groups are like SU(23), SU(47),.....etc. We found five bosons J_{k3} , J_{k8} , J_{k15} , J_{k24} , J_{k35} with respect to the five diagonal matrices I_3 , I_8 , I_{15} , I_{24} , I_{35} of SU(6) having zero mass & charge, just like as photon plays an important roles such as creating local consciousness. However, the photon does not interact with the neutrinos & others, but J_{k3} , J_{k8} , J_{k15} , J_{k24} , J_{k35} does & accelerates the neutrinos and others creating the strong neutral current responsible for “Quantum Gravity” etc. The exchange of any J_{k3} , J_{k8} , J_{k15} , J_{k24} , J_{k35} does not alter the electric charge-like, although the strong interaction of SU(6) does not directly involve the electric charge, it still seems to demand the charge bosons of J_{k1} , J_{k2} , J_{k4} , J_{k5} , J_{k6} ,..... J_{k34} with respect to the non diagonal matrices I_1 , I_2 , I_4 ,..... I_{34} are permit an interchange of wave functions, that means electrons and neutrinos can interchange. This circumstances prompted efforts to link it with the electromagnetic interaction that means an electro-strong interaction. The link $SU(6) \times U(1)$ brings the photon of U(1) [the electrodynamics U(1), which are inevitable arises particles that have the characteristics of a magnetic monopole. Monopoles are highly stable particles and once created they are not destructible. And so they would survive as relics to the present epoch] which is responsible for electromagnetic forces between charge particles are closer to all bosons of SU(6).

Similarly, effect of different kind of other electro-magnetic force-field was possible by incoming energies from out-side the body-system through holographic way, interacting the physical universe including all other body-system within it, as such these are therefore interacted human & lives through electromagnetic forces with currents called neural flows in human body-system under the cognitive willing of physical universes through the links $SU(12) \times U(1)$, $SU(24) \times U(1)$,.....etc. No such magnetic monopoles are possible to creates out-side the physical universe i.e. beyond 10-dimensional SUT theory of SU(11) & higher dimensions. Therefore, nonlocal consciousness is eternal cognitive based, different from the character of local consciousness but physically maybe connected & activated for good administrations of the body-system. An analogy will illustrate the scenarios the physical & chemical properties of water are different from hydrogen & oxygen although water is build by hydrogen & oxygen. Thus, a living human has two activated parts, one is the physical matter body constructed by ordinary matters through charge bosons that means made by simple & compound elements of zoo of particles through Inorganic & Organic substances whereas non physical soul was made by neutral bosons on the basis of different frequencies of energy waves as packets produces within physical universe, we are just like fish in water like energy ocean i.e. body was made by physical stuff could be dissolved physically if you wants, whereas soul could not dissolve ordinarily except it was merge to the spirit stuff of physical universe which can finally dissolve with the death of physical universe after attaining the Big- Crunch singularity[Bhadra, N. K. (2013), The Complex Quantum and Classical Pseudo-Tachyonic Universe. IOSR Journal of Mathematics, 8(3), 15 -32.], since the human or lives, are all belongs to the physical universe. An analogy illustrate the scenarios that an ordinary element was made by proton, electron & neutron, where the first two are charged particles constructed like human body-parts as physical stuff dissolvable whereas neutron is neutral particles constructed like soul stuff made by different kind energy frequencies & amplitudes which can never dissolve till after death of human or lives, but may appeared with different characters from the living status of human. That means life or soul was made by permutation & combination of energy frequencies after random evolution connecting the physical body-system which was actually made by charge or charge-like particles, again, remembered that neutron can produce proton & electron if required but actually all are made by quarks. We found literally simple, compound, inorganic, organic elements etc. with their physical & chemical changes formed material or physical body-parts, similarly assuming that, there must be created different categories of resulting waves as nonphysical body-parts combining through simple, compounded different kind of energy micro wave-lengths and their resonating vibration energies through by manipulating different energy frequencies, amplitudes within the packets etc. as nonphysical body-parts specifically called soul or spirit-stuff, based on frequencies whereas

physical-stuff was compound element based.

Interpretations of Background Hidden Forces:

In the theory of $SU(11) \supset SU(6) \times SU(5) \times U(1)$, we found five neutral bosons $J_{k3}, J_{k8}, J_{k15}, J_{k24}, J_{k35}$ of $SU(6)$ just like as photon corresponding to the neutrino-likes of $Z_{k3}^\circ, Z_{k8}^\circ, Z_{k15}^\circ, Z_{k24}^\circ, Z_{k35}^\circ$ [considering the notation are as usual like as Z° of the traditional weak neutrinos of the group $SU(2)$ of GUT model] with respect to the five diagonal matrices $I_3, I_8, I_{15}, I_{24}, I_{35}$ of $SU(6)$ having like zero mass and without any charge-like, a nascent stage. However, we know from the experimental result of famous scientists Abdus Salam & S Weinberg that photon does not interact with neutrinos of $SU(2)$, while Z° , just like as photon but does interact with neutrinos, we thus may usually considering all photon-like Z° 's are as similar interacted with neutrinos of $SU(6), SU(12), \dots$ etc. however there is a similarity between $SU(2)$ and $SU(6)$, although we know that strength of weak force of $SU(2)$ gradually increases while strength of strong force of $SU(3)$ decreases towards the GUT unification of $SU(5)$ and potential strength of $SU(6)$ are so strong that it changes the exotic or colloidal matter fluids into ordinary matters. We thus found bosons of $SU(6)$ from the theory of $SU(11) [\supset SU(6) \times SU(5) \times U(1)]$ of SUT symmetry breaking, are tightly binding by quark-types but lepton-likes forms new particle-likes as lumps of matters or soft matters with GUT symmetry breaking of $SU(5)$ then found particles of ordinary matter atoms as protons, neutrons, electrons etc. which are therefore formed tightly binding by quarks & gluons of $SU(3)$, that means in the theories of $SU(5)$, we found quarks & leptons and in the theories of $SU(11)$, thus we found quark-types from $SU(6)$ and quarks from $SU(5)$. We can thus make a quantum super computer in future on the basis of this theory that means encoding information with storing by choosing the highest points of amplitudes of different superposition energy waves by wave- functions collapsing then decoding by manipulating the systematic sequences through consciousness-like which working as gate-likes in human brain, does it like as microprocessor.

Therefore, photon-like neutral bosons of $SU(6)$ were interacted with other neutrinos through the framework of $SU(6) \times U(1)$ creating new kind of photo-electricity as neural current with high efficiencies of signaling system through-out the body-system flowing internally as well as externally within the physical universe by creating bio-electrons & bio-photons, which are potentially very strong strengths [comparing with water vapor-like having latent heat of 540 cal/gm remained with same temperature of boiling water of 100°C] of high intensities quanta of radio- wave designated light rays of beams like as laser pulses, it will then accelerated everywhere within the physical universe as like broadcasting system. Considering then strong strength forces by $SU(6)$ created "Quantum Gravity" in small scales and "Gravity" in large scales universe which initiating the bending property of closed body-system and the required particular shape of human & other lives, it is importantly then responsible for dynamical properties such as blood-circulation etc. within the living body-systems, providing a kind of electromagnetic forces with strong-pseudo- currents throughout the body-system by interactions between $Z_{k3}^\circ, Z_{k8}^\circ, Z_{k15}^\circ, Z_{k24}^\circ, Z_{k35}^\circ$ and $W_1, W_2, W_4, \dots, W_{34}$, such forces are as hidden in the background of ordinary matter particle, interactions was then created strong neutral current, behaving like an electric circuits within the close living-body-system called local neural network system starting from microprocessor-like human brain neurons within the body-system including creating a Wi-Fi region within the large scale electrons-ocean-like magnetic monopole based closed physical universe. So, new kind of strong interaction forces exerted by two type of bosons of $SU(6)$, as charge-like of 30-numbers bosons & by 5-numbers of photon-like neutral bosons, does not involve with any kind of electric charges, but seems like to demand bosons $J_{k1}, J_{k2}, J_{k4}, J_{k5}, J_{k6}, \dots, J_{k34}$ [as like between Z° & W^{\pm} in $SU(2)$] with respect to the non-diagonal matrices $I_1, I_2, I_4, \dots, I_{34}$ are permitted an interchange or rearrange the wave energy between the two types of bosons i.e. charge-likes bosons (W^{\pm} - Types) & neutral neutrino-likes (Z° -Types) bosons of $SU(6)$. Hence, this circumstances prompted efforts to link with a new kind of electromagnetic interaction, that means a hidden -electro-strong interaction working through the link $SU(6) \times U(1)$ i.e. brings the photons of $U(1)$ [the electrodynamics $U(1)$], which are inevitable arises particles that have the characteristics of a magnetic monopole. Thus found an electron's-ocean within the so called physical universe, which are therefore brings very closer to the bosons of $SU(6)$. An analogy will illustrate the scenario that if we imagine an ordinary light of quanta are in wave of electromagnetic ocean and be quite successful at it, wouldn't be much of a stretch for us to image electrons as something like tethered buoys floating in an electromagnetic harbor. Along with other incoming waves (new kind of light energy waves) including photon-likes also from new energy sources as explained before which pull and tug at the buoys (electrons). Weak waves have no effects, but strong ones just might yank a buoy from their mooring and set it adrift. A

wave model of light would predict an energy - amplitude relationship and not the energy-frequency relationship. Again, photoelectric experiments describe an electromagnetic ocean where monstrous swells wouldn't tip over a canoe, but tiny ripples would fling you into the air. If that wasn't enough, the photoelectrons seem to pop out from the surface of body too quickly. When light intensities are very low, the rate at which energy is delivered to the surface is downright sluggish. It should take a while for any one particular electron to capture enough of this diffuse energy to free itself. It should, but it doesn't. The light rays formed by the packets of new photon-like, excited electrons by flash-like cut-off as 0 - 1 binary-system of computer otherwise we now introduce 0, +1, -1 tertiary-system by their superposition of waves, depending on the flexibility of the impact surfaces then created photo - emissions or absorbed energy, then creating variable photo currents with different amplitudes & intensities within close body or close universe (for details see the articles "How SU -Levels-Are- Imply-for-Life-Consciousness-ABBSR-20" & "PHOTOELECTRIC EFFECTS: HUMAN MIND & SENSE DATUM"). Again, Rutherford model of atoms explains, most of the matter atoms having empty spaces. Photons as well as new photon-like of incoming information carrying energy are always penetrate the multiple layers of atom of the material substances before an exciting the electron otherwise experiencing coherent scattering (i.e. Thomson scattering), then rearranging the molecular structures. Usually, there may be possible to found an existence of ocean of particle-likes formed by new energies in wave status after unfolding at 10-dimensional super gravity including all other previously releasing neutrino-like bosons of the energy sources of SU(12), SU(24),..., etc. are incoming through holography way which are therefore responsible for changing the phases & influencing continue to unfolding towards the appearance of most ordinary matter oriented physical universe. In our physical universe, practically we found there various type of electromagnetic forces with different kind of wave-lengths as visible rays including with "Invisible Rays" [just like as X-rays differ from cathode rays] appearing through "Fluxes of Neutral bosons" from SU(6), SU(12), SU(24),...etc. interacting with photons of U(1)", through the respective framework of "SU(6) \times U(1); SU(12) \times U(1); SU(24) \times U(1)"; etc. created new kind of light rays including with strengthen current of large potential with ordinary light.

Differences between Spirit & Soul:

Within large scale physical universe or multiple physical universes, were possible to form an infinitely large numbers of dynamical close-body-system having different identities & individualities. All having two common parts as "Spirit Stuff or Soul Stuff & Physical Stuff", all appears after symmetry breaking of SU(11), then the physical universe so called mother dynamical-body-system including all lives (animals & trees) was controlled by local consciousness by energy source of SU(6) in the framework of SU(6) \times U(1). The physical stuff were constructed by quark-types but lepton-like are tightly binding by the bosons of SU(6), creating through exotic matter fluids which changes to lumps of matter in large scale & soft matters in small scales carrying information then cognitively encoding & manipulating the ordered sequences, such as an example, we found an application of cognitive manipulation of information as encoding system of DNA, Protein chain, different body-parts of human-like dynamical body-systems. We thus found a zoo of simple & compound chemical elements [all are to be considered that created through quarks by SU(3) in the GUT of SU(5) & quarks-like but lepton-types by SU(6) in the SUT of SU(6)] out of which physical stuff of living body-system was mostly constructed by ordinary matters of elementary particles carbon & hydrogen etc. Whereas spirit stuff were constructed by photon-like neutral bosons of SU(6) in the framework of SU(6) \times U(1) under physical universe, a kind of electromagnetic force-fields, then soul stuff, a sub-part of spirit stuff are only responsible & controlled the individual dynamic living-body-system or any other living body-system as like a guardian of that particular body-system are always linking with spirit stuff of physical universe interacting through local consciousness, hence created mind, emotion, love, angry etc. playing by the active role of another neutral bosons of the energy group SU(2) in the framework of SU(2) \times U(1) in GUT SU(5). We thus considered that individual minds are always interconnected with universal mind. So, in the theory of "Soul Stuff & Physical Stuff" of human body, the physical stuff were constructed by manipulating as differently encoding information through Q-bit system forming by the required structures of DNA, Protein Chains etc. by ordinary matters within 4- dimensional Einstein's space-time-matters as explained by standard model of physics through the symmetry breaking of SU(5), that means quarks are tightly binding by the bosons of SU(3) formed by ordinary matters including neuro-plasticity of brain with neutral current as neural flows producing by SU(2) in the framework of SU(2) \times U(1) since by GUT theory but actually all are unfolded by SUT theory of exotic matter fluids like as water decomposed into Hydrogen & Oxygen, which bounce-back after

the death of conscious body-system or the death of physical universe. It is to be important that the spirit stuff was constructed by a kind of photo-electromagnetic force unfolded with 6-dimensions out of 10-dimensional super string theory beyond 4-dimensional Einstein's universe because it was clarified that our physical matter universe was unfolded from 10-dimensional SUT theory where explained that 10 to 7-dimensional flat universe then 5 & 6- dimensions are associated with black-holes, dark matters or exotic matter fluids of colloidal particles which then gradually changes to lumps of matters in large scale & then soft matters in small scales may unfolded from 4th dimensional universe. So, we are all including our physical universe is nothing but a system generating results made by different frequencies & wave-lengths with new energy fluctuations of other phases as explained by me, where nonlocal consciousness mainly playing the fundamental role of the dramatic changes for unfolding our so called physical universe. Then local consciousness were producing by energy group SU(6) is the Guardian of everything within our so called physical universe including humans & lives. So, after death of lives & humans, we could destroyed the physical part only but we can't destroy the non-physical part, the soul since it is a sub-part and are always linked with spirit stuff before & after birth and death. So, individual soul of a human or live are always produced by an electromagnetic energy-field- force with different sequences of frequencies of natures according to the cognitive manipulation playing like broadcasting radio waves connecting through network system under physical universe. Normally our soul was bounded with earth's gravity as well as Sun's family.

II. Conclusion:

Thus many Q-bits system were possible under SUT of SU(11) with the formation of lattice by strings bundle in weak coupling regime explained in Wilson loop beyond the strong coupling regime of SM through charge-like bosons & neutral bosons of SU(6).

It was shown in my articles that our physical universe were flat from (10-7)-dimensions, no adiabatic stage arises, after then from 6-dimensions, the adiabatic stage are possible with quark-types but lepton-like particles are tightly binding by the bosons of SU(6) constructed new particles regime in the early stages of dynamic close-body-system of so called physical universe. In the theory of SU(11), it is possible to change of 30-number of bosons of SU(6) into 30-number of bosons of SU(5) or vice-versa by exchanging the J-bosons of SU(11).

We need to require more importance on new energy sources of SU(6), SU(12), SU(24),.....are as signatures of everything. Require widely consideration of the appearance of physical universe which actually unfolding from 10-dimensional space-time instead of Einstein's 4-dimensional universe that means we need to required a revision of Standard Model of Physics and an extension of GRT obviously required, i.e. considering the space-time as $R + iRi$, types. Given more & more importance on observation by experimental result regarding the existences of new force creator energy source SU(6) and indentified the characters & behaviors including its important roles for the creation of everything within the real physical universe. We try to proof that new force creating by energy group SU(6) plays an important roles including carrying information, proves that it creates local consciousness. Also presently more research are needed to proof that it plays an important roles for the creation of matter body-system that means lives & humans and also influencing for unfolding the symmetry breaking of the GUT group SU(5). Every quantum explanation needed to consider the background dense nonphysical high frequencies short waves lengths energies.

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