

## **Anahad Naad Energy Field Theory of Universe**

Inspired from Sri Guru Granth Sahib and Sri Dasam Granth

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## **ABSTRACT**

The Universe is governed by the hidden energy field called Anhad Naad Energy Field (ANEF) which is responsible for its origin, existence and working. Universe is either continuously being created or continuously being destroyed by the Supreme Consciousness of the Eternal existence which is the most fundamental reality. There is only one force called Anhad Naad Force (AF force) which along with all the particles emerge from the infinite formless physical Eternal existence (physical vacuum or void) through the process of primordial vibration having cosmic frequency limit. Knowing the exact nature of the infinite formless physical Eternal Existence is beyond our ability. In this paper author has tried to reveal the hidden physics of the universe to explain the mysteries like origin of mass and charge of particles, nature of gravity, unification of the fundamental forces of nature, matter/ antimatter asymmetry, arrow of time, quantum entanglement and so called accelerated expansion of the universe etc. with the help of a New Theory of hidden variables called Anahad Naad Energy Field Theory of the Universe inspired from Sri Guru Granth sahib and Dasam Granth.

### **Keywords and Abbreviations:**

NIRGUNA, SARGUNA, Anahad Naad Energy Field (ANEF), Anahad Naad Force (AF Force), Cosmic Frequency Limit (CFL), Cosmic Time Reversal (CTR), Mass Defect.

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# MOOL MANTRA

## “IK OANKAAR SATNAAM KARTA PURKH NIRBHAO NIRVAIR AKAL MOORAT AJOONI SAIBHANG GURPARSAD”

In Mool Mantra, Dhan Guru Nanak Dev Ji shows the glimpses of ALMIGHTY WAHEGURU WHO exists in two Saroops (forms). The first word of the Mool Mantra is IK OANKAAR which describes both the forms of Almighty Waheguru. The word IK OANKAAR is a combination of two words IK and OANKAAR. IK represents the ‘NIRGUNA’ SAROOP and OANKAAR represents the ‘SARGUNA’ SAROOP of ALMIGHTY WAHEGURU.

**NIRGUNA (Physical Vacuum):** is infinite, continuous, isotropic, homogeneous, timeless, omnipresent, non-moving formless Eternal Existence having unique properties:-

1. Supremely Conscious by virtue of His unbroken continuous Oneness.
2. The Ultimate Source of Primordial Energy (Energy of Supreme Consciousness) which is the causality of everything.
3. Truly physical (but not solid, gas or liquid as all these are made of particles) but beyond the reach of our senses and our ability of measurement and obeys all the laws of motion just like any other physical entity.

**SARGUNA (Particles and Forces):** is the discrete manifestation of Primordial Energy within infinite continuous NIRGUNA caused by the phenomena of cosmic frequency limit (CFL) and Cosmic Time Reversal (CTR).

## 1. Introduction:

Supreme consciousness is the primordial energy which is the cause of everything. SARGUNA begins with the primordial vibration caused by supreme consciousness at any random point in NIRGUNA (Physical void). Primordial vibrations (Anhad Naad) have uppermost frequency which is the ultimate limit beyond which nothing can vibrate in NIRGUNA. Anhad Naad propagates through NIRGUNA in the form of spherical waves originating from the point source. These waves propagate in all directions at the speed of  $2.99792458 \times 10^8 \text{ ms}^{-1}$  producing an energy field called Anhad Naad Energy field (ANEF). Frequency of Anhad naad is the peak frequency possible at which anything can vibrate in this universe. Further supply of energy can't increase the frequency of any particle beyond that peak value which is constant and can be termed as Cosmic Frequency Limit (CFL). The continuous flow of energy to further increase the frequency of vibration beyond the CFL limit, results into the occurrence of unique counterintuitive phenomenon which is actually occurring everywhere in our Universe called particlization of the continuous primordial energy of supreme consciousness into discrete manifestations called particles. This is called 'From One to Many' phenomenon. These discrete quantized packets of energy (particles) can survive only with the help of their induced motion which is induced by the pushing action of ANEF waves. If as per the will of Supreme Consciousness, the ANEF discontinues, all the particles will stop moving and get absorbed back into the continuous primordial energy source i.e. supreme consciousness of infinite eternal existence and this absorption/ disappearance of particles will happen at the speed of light in all directions.

## **I. What is a Particle:-**

Particles are discrete manifestations of continuous supreme consciousness (primordial energy) within NIRGUNA which are produced during the process of vibration having frequency equal to CFL. Its quantum depends upon the amount of time for which a parent particle, vibrating at CFL, receives extra energy to further increase its frequency of vibration during its arbitrary dance around its companion particle/ particles in a bounded state. This extra quantum of energy, which is unable to increase the frequency of the vibrating particle, manifests in the form of another particle.

## **II. Three Categories of particles (Energy Packets) are possible:-**

On the basis of quanta of energy utilized, three categories of particles are possible. But it must be kept in mind that the size of any particle is impossible to measure as none of the particle can physically touch any other particle. The sizes have been measured so far are the overestimation of the actual sizes which are in fact very much smaller than the measured ones. All particles, except photons, are producing particle waves which are force waves and are repulsive in nature. Only an antiparticle can physically touch its partner particle without applying external force. But measuring the size of any particle with the help of its antiparticle is next to impossible. However, very close approximation of the absolute size of a particle can be made by measuring the speed of partner matter and antimatter particles around each other as well as the tail end frequency of the gamma ray burst during the so called annihilation of matter and partner antimatter particles just before their absorption into the void. Diameter of electron/ positron ( $d_e$ ) can be estimated by:-

$$\mathbf{d}_e = (\mathbf{T}\mathbf{v}_e)/\pi$$

Where  $\mathbf{T}$  is the time period of the tail end frequency of gamma ray

$\mathbf{v}_e$  is the velocity of electron/ positron pair around each other during so called annihilation

## **1. Primary Particles:**

Particles belonging to this category are actually pseudo particles in nature because they exist only at the crests of ANEF waves and have no separate existence in troughs of ANEF waves. These particles are actually the extra amplitude wave fronts of ANEF waves having quantum of energy above the threshold level. Primary particles move at the speed of normal ANEF waves, thereby having least possible mass in this universe which is considered as zero mass and just exist as an extra force carrier which enhances the strength of a single ANEF wave front which is carrying that pseudo primary particle. Normal ANEF waves carry quantum of energy below the threshold level. All ANEF waves are repulsive waves and these pseudo particles enhance their strength of repulsion. Photons are made of flocks of these primary particles. Energy of a photon depends upon the number of primary particles crossing through an imaginary curved spherical surface per unit time. Primary particles do not vibrate to produce any particle waves (in fact these particles itself are extra amplitude wave fronts which originate randomly among the set of normal wave fronts of ANEF waves), therefore having no charge and no any partner antiparticle. These primary particles, acting as force carriers, can hit any secondary particle directly without interacting with its particle waves. Whenever any primary particle collides with a secondary particle, the quantum of energy of the primary particle went below the threshold level and it starts behaving as normal ANEF wave front. These particles are their own antiparticles.

### **1.1 Light**

Light and all other electromagnetic waves are made of flocks of primary particles. The ANEF waves have downward energy gradient as we move away from the center of origin of

the universe. Any action having energy below the threshold energy level is immeasurable/ undetectable and considered as zero quantum of action and we can't detect that action with any instrument as all of the instruments are also the part of that energy regime. Any action having energy equal to or above that critical energy level is detectable and can be considered as non-zero quantum of action. All the secondary particles produce particle waves which are having zero quantum of action and are undetectable/ immeasurable in this universe. Whenever a secondary particle, through the process of CTR, produces a wave front having amplitude larger than the amplitude of a normal particle wave, a primary particle comes into being which have non-zero quantum of action and is detectable as independent discrete particle. Ratio of these particles out of total particle waves being produced by any secondary particle determines the energy of a photon. Whenever this primary particle hits secondary particles its energy falls below the critical level and it reduces to a normal particle wave.

## **2. Secondary Particles:**

Particles belonging to this category are real particles having independent existence. A parent secondary particle, whenever virtually stops in time (which is possible only in a bound state i.e. an atom) due to AF forces of surrounding sister nucleons, it begins to vibrate at CFL for an ultra small fraction of a second and continuous supply of extra energy in the form of hits per unit time by multiple primary particles simultaneously results into increase in its amplitude of vibration for that ultra small fraction of a second. This increased amplitude caused some sort of impression in the fabric of NIRGUNA which are very short lived localized excitations in the fabric of NIRGUNA (on either side of parent secondary particle having 180 degree lag with each other) and the fabric of NIRGUNA tends to return back into its ground state (i.e. unexcited flat fabric of NIRGUNA) after a very small fraction of a second but the waves coming from parent secondary particle having time period even smaller than that fraction of a second caused them to remain in

excited state for infinite time until the quanta of action of pushing wave fronts coming from the parent secondary particle falls below the critical point. This is how a secondary particle reproduces another secondary particle with the help of primary particles coming from neighboring secondary particles. When the quanta of action of the wave fronts fall below the critical point then the localized excitation (secondary particle) breaks down into smaller excitations to stay alive, but in the total absence of guiding wave fronts these excitations will become motionless and quickly disappears in a very small fraction of time. These so produced secondary particles have some size thereby feel resistance from the void and can't be taken away smoothly by the ANEF waves and exist as a separate entity which has its existence during the troughs as well as crests of ANEF waves. These particles exhibit unique vibratory motion which is explained in next section. Due to their vibratory motion, these particles move with the net translational velocity which is very much less than the velocity of ANEF waves thereby exhibit a property called mass. Electrons, protons, neutrons and all massive particles belong to this category. These particles move forward and backward in time so quickly with very high frequency during their vibratory motion. That is why they appear to exist in superposition of states of up and down spin. Whenever we measure their state, it comes up either moving forward in time or backward in time. The former can be assumed as spin up state while latter can be assumed as spin down state of quantum mechanics or vice versa.

### **3. Intermediary Particles:**

A secondary particle having unique size which allow them to exhibit a unique type of motion in which these particles first accelerate then decelerate slowly and then accelerate again by the next wave to repeat the same cycle again and again without being rebound back which make them to have ultra low mass. Also this type of motion, allow them to produce particle waves in only one direction in which they are advancing, away from their source of origin. These particles have

their antiparticles but they never interact decisively with each other and behave as if they are their own antiparticles because whenever they interact with their counterparts or any secondary particle, they just can't bound with each other and get slipped away after quarter rotation. These particles although produce particle waves in one direction but never interact to the extent which is required to become the part of an atom and therefore exist as free moving particles running very close to the speed of light. These particles do not move forward and backward in time during their motion. Due to this, these particles never appear to exist in superposition of states of up and down spin. Neutrinos belong to this category of particles. This is the reason why all neutrinos exist as left handed and their counterpart antineutrinos exist as right handed particles.

## **2. Induced or guided motion of a free secondary particle**

Primary particles are extra amplitudes of ANEF/particle waves which move at the speed equal to the speed ( $c$ ) of ANEF waves while secondary particles are localized manifestations of primordial energy in NIRGUNA which are having some size and thereby feel some resistance through the void and can't be carried away smoothly by ANEF waves and begin to exhibit simple harmonic motion in which a particle is pushed by ANEF wave, it accelerates then decelerates through the void due to its damping effect and then immediately get rebound back as physical void perfectly obeys the 3<sup>rd</sup> law of motion but before reaching its initial position, it is pushed forward in time again and again by the following ANEF wave fronts to repeat the same act again and again having net displacement of the mean position of vibratory motion of secondary particles always forward in time. Due to this pushing and rebounding of secondary particles, their motion through void become a driven damped simple harmonic motion in which particle move in both forward as well as backward in time. Time period of the harmonic motion of the particles is more than the time period of the ANEF wave. That is why particle moves

forward in time with every stroke of the ANEF waves. In other words the mean position of the oscillating particle keeps on moving forward in time. The induced motion of a particle is given by the equation:

$$\frac{\partial Q_K}{\partial t}(t) = \left( \frac{2\Phi}{m_K} (\omega_A - \omega_K) \right)^{\frac{1}{2}} (Q_1, Q_2 \dots \dots Q_N, t)$$

Where  $\Phi$  is the reduced Anhadnaad constant ( $\Phi/2\pi$ ) having same units as that of planck's constant. In fact Anhadnaad constant is not a constant in true sense because it is continuously reducing at constant rate over time as ANEF waves move away from the centre of its origin.  $m_K$  is the mass of  $k^{th}$  particle,  $\omega_A$  is the angular frequency of ANEF wave,  $\omega_K$  is the angular frequency of the  $k^{th}$  particle.

## Mathematical Formulation

Every particle is receiving its energy from its guiding mother waves. All secondary particles use small part of this energy for their motion i.e. kinetic energy and the major part of this energy is used by the particles to produce their respective particle waves given by the equation:

**Total Energy of a particle received from ANEF waves = Vibration Energy + Kinetic Energy**

$$\Phi\omega_A = \Phi\omega_P + KE \dots\dots\dots(1)$$

Kinetic energy of a particle is given by:

$$KE = \Phi(\omega_A - \omega_P)$$

When a secondary particle moves by the pushing ANEF waves, its frequency and velocity is given by:

$$\omega_P = \omega_A - v_P k_A$$

$$V_P = \frac{\omega_A - \omega_P}{K_A}$$

$$V_P = \frac{c(\omega_A - \omega_P)}{\omega_A} \quad (K_A = \frac{\omega_A}{c})$$

$$V_P = c(1 - \frac{\omega_P}{\omega_A}) \dots\dots\dots(2)$$

Where  $\omega_P$  is the angular frequency of a secondary particle,  $v_P$  is the velocity of particle and  $k_A$  is the angular wave number of ANEF waves.

For primary particles  $\omega_P = 0$  because these particles do not vibrate at all and always move with the 'c' the speed of light.

## Deriving Guiding Wave Equation

$$\Phi \omega_K = \Phi \omega_A - KE$$

$$\Phi \omega_K = \Phi \omega_A - \frac{1}{2} m v^2$$

$$v^2 = \frac{2\Phi}{m_K} (\omega_A - \omega_K)$$

$$\frac{\partial Q_K}{\partial t}(t) = \left( \frac{2\Phi}{m_K} (\omega_A - \omega_K) \right)^{\frac{1}{2}} (Q_1, Q_2 \dots \dots Q_N, t)$$

Also

$$\omega_A = \omega_k + v_k k_A$$

$$\omega_A - \omega_k = v_k k_A$$

$$\omega_A - \omega_k = \frac{V_k \omega_A}{c} \dots \dots \dots (3) \quad (K_A = \frac{\omega_A}{c})$$

Putting the value of  $\omega_A - \omega_k$  in the equation of induced motion we get

Bohm like equation:

$$\frac{\partial Q_K}{\partial t}(t) = \frac{2\Phi}{m_k} \text{Im} \left( \frac{\nabla \Psi}{\Psi} \right) (Q_1, Q_2 \dots \dots Q_N, t)$$

Now wave function or particle waves of each and every secondary particle interact with its surrounding particles through the process of wave interference in which positive interference results into repulsion between particles as number of waves grow between them (In fact the colliding waves revert back towards their source particle and push them away from each other) while negative interference results into attraction between particles as number of force waves either disappear totally (when phase difference is 180 degree fixed) or weaken due to reduction

in amplitude (when phase difference varies due to unequal frequencies) of waves remaining between them. Particles belonging to same species (always in phase with each other) show pure repulsion due to pure positive interference between them while particles belonging to different species (interaction of an electron with a proton) can't have pure negative interference, in fact due to their unequal frequencies, they always have varying phase difference between them resulting into both attraction as well as repulsion between them. That is why electrons never fall on the nucleus of an atom and dance at some random distances where both forces are in equilibrium with each other resulting into capturing of the electron around the nucleus. Path of an electron around the nucleus is totally unorganized because of rapidly shifting equilibrium of forces between electron and nucleus due to rapidly changing frequency of the vibratory motion of electron caused by the process of time reversal brought about by the continuous rapidly changing interference of particle waves between electron and nucleus. On the other hand when two antiparticles i.e. electron and positron interact with each other, there is always a pure negative interference between them resulting into total strong attraction between them. Quality of interaction between any two or more secondary particles is always invariant or fixed, no matter whatever is the distance between them whether it is multiple of the wavelengths or not. The reason is occurrence of interference of their particle waves is always at the exact midpoint between the particles because of the invariant constant speed of waves equal to the speed of light in vacuum. However magnitude of interaction always proportional to the distance between the interacting particles and it always obey the inverse square law which is always applicable for the spherical waves. After total or partial positive interference, the waves (either unchanged or weakened) returned back towards the source particle and push them away from each other. On the other hand attraction occurs due to total disappearance or weakening of waves between the interacting particles due to negative interference.

Different species of particles having different masses move with different velocities. Their frequencies are directly proportional to their mass. In their free state all particles belonging to same species will move at an invariant speed having invariant frequency of their vibratory motion. This unique vibratory motion of all the particles is analogous to the primordial vibration. Due to this vibratory motion, each and every secondary particle of this universe produce particle waves in physical vacuum which creates a field all around the particle called Secondary Anahadnaad Energy Field. From here on we will use term Primary Anahadnaad Energy Field (pANEF) for the energy field originating from the centre of origin of the universe and term Secondary Anahadnaad Energy Field (sANEF) for the energy field being produced by vibrating secondary particles. Just like pANEF, the sANEF of each and every particle is also infinite in range and interfere with every other surrounding particle through the process of interference of their particle waves (wave functions). Larger particles (e.g. protons) experience more resistance from physical vacuum by virtue of their larger size and move comparatively slower than the smaller particles (e.g. electrons). Due to this speed difference, the slow moving particles will get more hits from the passing ANEF waves and vibrate at higher frequency than the smaller ones which will get comparatively less hits and thereby having comparatively lower frequency. All particles belonging to same species, when moving all alone (when all the other species of secondary particles are absent) and freely in void, are in phase with each other by virtue of invariant frequencies of their vibratory motion but have varying phase difference with other particles belonging to other species vibrating at different frequency.

pANEF field and sANEF fields are analogous to each other but still there is a major difference between them. pANEF field is being produced by the source which is having zero net displacement while sANEF fields are being produced by the moving sources having non zero net displacement. Due to this major difference, the frequency of vibration is invariant on both sides for pANEF field. But for sANEF field, the frequency of vibration is comparatively larger in the

direction of motion of moving source (particle) due to Doppler's Effect. When two particles of same species come close to each other, they tend to totally repel each other (due to their invariant wave functions) from sideways but partially attract each other from front and back sides due to varying phase difference between waves emerging from front and back sides of a particle by virtue of dissimilar frequencies. But this patchy attraction between them does not allow them to form a bounded state like an atom and they immediately repel each other from sides when they try to rotate around each other. Each and every secondary particle of this universe tends to create its own universe around itself in which their own time runs in both directions of their vibratory motion. The only difference is the magnitude of frequency as well as amount of energy available, for the creation of their respective universes, which has no comparison with the amount of energy available at the centre of origin of the universe. In fact the energy available to each and every particle of this universe is itself coming from the primordial vibrations of the centre of origin of the universe.

### **3. Origin of Mass**

Mass is the reduction of speed of particles in the direction of the propagation of ANEF waves. Secondary particles being pushed by ANEF waves through void, can't be carried away smoothly along with the waves and begin to undergo vibratory motion resulting in the origin of mass in the mass less particles. Smaller the size, larger the translational speed of a particle and vice versa or larger the size (closed volume) larger the resistance, thereby larger the mass of a particle and vice versa. Mass is a transient property at particle level. Motion of subatomic particles in an atom is not independent of each other. Therefore mass energy of subatomic particles having coupled motion is given by:

$$M=m \cos(\phi/2)$$

Where 'M' is the actual sum of masses of two particles and 'm' is the algebraic sum of masses.

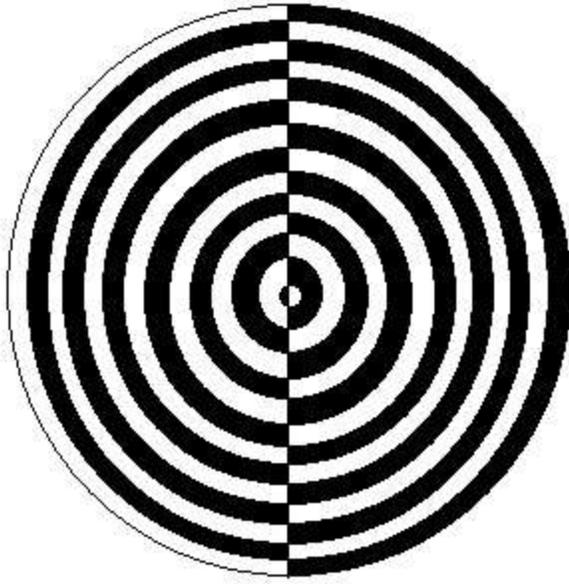
$\phi$  is the average approximation of continuously varying angle of phase difference between particles. If two particles are in phase with each other then  $\phi=0^\circ$  and 'M' will be exactly equal to 'm' but for particles in opposite phases (i.e. matter and anti matter particles)  $\phi=180^\circ$  and M will be Zero means two particles will cease to exist and get absorbed into void. But for all other periodically varying phase differences whose magnitude will be between 0 and 180 degrees, the magnitude of 'M' will always be less than 'm'. This is called Mass defect. Energy can only be released through the process of CTR (explained in latter section) while mass defect is caused by the varying phase difference between coupled vibrating particles in an atom. Release of energy has nothing to do with mass defect.

## **Factors affecting the Mass of a particle**

Mass of a particle is

1. Directly proportional to the closed volume of that particle as well as the damping constant of the physical vacuum. Both these parameters remain constant for a particular particle throughout the life of the universe
2. Inversely proportional to the energy per unit area of the Anahadnaad Wave which is continuously reducing with the passage of time, although the rate of its reduction is super ultra slow because we are billions of light years away from the centre of origin of the universe.

## **4. Matter Anti-Matter Asymmetry:-**



Nature of spherical ANEF waves (for convenience shown as circular rings) as shown above is such that it has completely opposite phase in other direction of the centre of its origin. These waves push photons in straight lines in all directions but secondary particles move in forward and backward vibratory motion in the direction of propagation of ANEF waves in such a way having net forward motion in the direction of flow of time in both sides of the centre of origin of the universe. In this way all secondary particles will move with opposite phase of vibration in opposite directions of the centre of origin of ANEF waves or the centre of origin of the universe. All secondary particles have mass and thereby have their counterpart antiparticles running backward in time in other side of the universe. This is the reason of matter antimatter asymmetry. Antimatter particles are exactly similar to matter particles and also run forward in time on the other half of the universe but if we create particles in labs, half of the particles move backward in time of the source of its origin and behave as antimatter particles in our side of the universe. Photons (primary particles) do not have any partner antiparticle because they do not vibrate inside ANEF.

**At the origin of Universe, the ANEF wave is given by the equation:**

$$\Psi (\mathbf{x}, \pm t) = \mathbf{A}e^{-i(\mathbf{kx}+\omega t)} + \mathbf{B}e^{i(\mathbf{kx}-\omega t)}$$

Where ‘k’ is the wave number of ANEF waves and ‘ $\omega$ ’ is the angular frequency of ANEF waves. Above equation represents the time evolution of ANEF waves originating from point source, the origin of the universe, in such a way that the first part ( $\mathbf{A}e^{-i(\mathbf{kx}+\omega t)}$ ) represents the time evolution in forward direction of time with positive ‘+t’ i.e. in our side of the universe while the second part ( $\mathbf{B}e^{i(\mathbf{kx}-\omega t)}$ ) represents the time evolution in reverse direction of time with negative ‘-t’ i.e. the opposite side to our side of the universe in which time flow in reverse direction with respect to us. Presence of ‘i’ and ‘-i’ for the equations representing the two opposite sides of the universe also give the total net angle of phase difference equal to 180 degree as ‘i’ caused the rotation by 90 degrees counter clockwise while ‘-i’ caused the rotation by another 90 degrees clockwise thereby net angle of phase between opposite sides of the universe is 180 degrees.. At the origin of the universe particles are being produced in such a way that half of them are going forward in time and half of them are going backward in time along with the ANEF waves. These unknowable particles are having comparatively larger size than any known particles but still moves at very close to the speed of light because waves at the centre of origin of the universe are having very high energy. These particles either going forward or backward in time on either sides of the universe are same in all respects. These are their own antiparticles because they do not undergo harmonic motion due to the very high energy per unit area of pushing waves near the centre of origin of the universe. But at some distance away from the centre of origin of the universe the energy per unit area of the ANEF waves went below the critical point (obeying the inverse square law) at which these particles can’t be pushed smoothly

thereby particles begin to exhibit harmonic motion forward and backward in time. These unknown large sized particles slow down owing to their harmonic motion but all are in phase with each other. During this period they just repel each other but they become unstable at some particular distance from the centre of origin of the universe due to the reduction in their speed brought about by the weakening of energy per unit area of the ANEF waves and decay into smaller particles to regain their stability. This phenomenon results into the formation of different zones around the centre of origin of the universe, which differ from each other due to the set of different particles which are stable only in their respective zones. Stability of a particle depends upon its size, mass and speed and also energy per unit area of the waves which induce motion in the particles.

## **5. Cosmic Time or Time**

Universe exists by virtue of its motion which is induced by ANEF waves. As the waves begin to propagate through void from the centre of origin, the Time starts moving. Cosmic Time represents the dynamism of the universe i.e. the propagation of ANEF waves through the void which induces motion in all particles of the universe. If somehow ANEF waves stop propagating, Time will also stop and the universe will cease to exist. Existence of the universe merely depends upon the flow of Time. Particles exist only if these are in motion. In the absence of ANEF waves particles will stop moving and get absorbed into the void. In labs we have witnessed the absorption of matter antimatter pairs into the void which is wrongly termed as annihilation. In our side of the universe matter particles move forward in time while antimatter particles move backward in time. Due to maximum phase difference between them, they attract each other very strongly and continuously rotate around each other millions of times before they

finally come into absolute physical contact with each other after continuously fully cancelling out the particle waves of each other. Guiding waves of both partners stop each other's motion in Time as the one was moving forward and the other was moving backward in Time. Due to this stoppage of Time for both partners, they get absorbed into the void and cease to exist in this universe. Reason of the emission of energy in the form of gamma ray is not due to any transformation of mass into energy but due to cosmic time reversal (discussed in following section) of two revolving particles (matter-antimatter pair) around each other. Time produced by the vibration of the centre of origin of the universe is called Cosmic Time. Just like the centre of origin of the universe, each and every secondary particle, by virtue of its vibrating motion, produces its own Time and depending upon the availability of energy, each and every particle can produce more particles as well.

*Universe also has preferred direction of expansion which is very difficult to determine but if we can detect the direction of motion of antimatter particle during the time of pair production then we can determine the preferred direction of expansion of universe because antimatter always moves backward in time towards the origin of the universe but a very sophisticated experimental setup is required because electromagnetic forces from the surrounding particles can deflect its path.*

**6. Classically unexplainable concepts of Quantum Mechanics can easily be explained, in classical terms, in the light of Anahadnaad Energy Field Theory of the Universe:-**

All secondary particles vibrate forward and backward in time during their motion. When particle moves forward in time, it is considered as spin up and when it moves backward in time, it is

considered as spin down or vice versa. Translational motion of spinning secondary particles forward in time can be considered as quantum spin up while their translational motion backward in time with opposite direction of spinning can be considered as quantum spin down or vice versa. Both up and down spin happen, one after the other, very rapidly in such a way that it takes 720 degree double turn for a vibrating particle to come back to its previous state and it is very hard or even impossible to observe these rapidly changing states. This inability of observation/measurement results into the onset of the principle of superposition of quantum states.

### **A. Entanglement and EPR paradox**

All the particles of this universe are governed by their mother ANEF waves (either pANEF waves or sANEF waves). Particles, belonging to the same mother ANEF waves originating from single common source stay entangled with each other. For example all the photons originating from a single common source will be rotating in clockwise direction while all the anti photons originating from the same source will be rotating in counter clockwise direction or vice versa due to so called entanglement. Einstein considered the entanglement as “the spooky action at a distance”. He was right because there is no communication required for entanglement to take place. It is just the outcome of the way our universe exists. Communication, faster than light, is not possible at all.

Measuring entanglement between two photons, moving in opposite directions, originating from single common source is very easy because photons remain in same state all the time. There is no such phenomenon of quantum spin for photons. But on the other hand, all the secondary particles move forward and backward in time during their motion and tend to have two different states which rapidly follow each other in such a way that we are unable to observe them and this inability gives rise to the consideration that a secondary particle is always in both states at any instance of time and only reduce to its single state when we measure that state. It measures either

as spin up or as spin down depending upon the timing of their measurement. In fact the phenomenon of superposition is the result of our inability to measure and understand the hidden physics which governs the quantum realm. This all depend upon the setup of our measuring equipments. For example if we setup our measuring equipment in such way that there is a time lag equal to the half cycle of ANEF wave between two so called simultaneous events of measurements, then every time we tend to measure the state of two electrons instantaneously, it will always be spin up for the first electron and spin down for the other one or vice versa. This co-relation of outcomes of measurement of states of two particles governed by the mother waves originating from single common source is considered as quantum entanglement.

## 7. COSMIC TIME REVERSAL (CTR)

Free energy is flowing in every bit of the universe in the form of ANEF waves which is controlling the whole universe and allowing it to exist. Each and every particle of the universe is receiving energy from ANEF waves which is given by:  $E = \Phi \omega_A$  where  $\Phi$  is the reduced Anhadnaad constant (which is actually reducing at constant rate), But particles can use only very small portion of this energy for their translational motion while the remaining portion of this energy is utilized for their vibratory motion to produce particle waves as explained in the previous section. In the absence of this energy field, the universe will not exist at all because there will be no motion in particles and in the absence of motion, the particle will get absorbed back into the void. Then only the void (NIRGUNA) will remain which was there before the beginning of the universe. Particles can survive only by virtue of their motion in the void and this motion of particles as well as heavenly bodies give the feeling that time is running. As these particles and all the heavenly bodies are running away from the centre of origin of the universe, so Time is also going in one direction in our side of universe. If pANEF field cease to exist as

per the will of Supreme Consciousness, then there will be no motion thereby no time thereby no universe will exist at all. This free flowing energy can be transformed into photons and/or other particles by the process of CTR. There is no other mean of doing so at all. All the energy coming from stars is the result of CTR. CTR is the phenomenon in which a particle, going forward in time having some frequency (its base frequency) below the CFL limit, is forced to virtually stop in time to increase its frequency equal to the CFL limits, thereby producing packets of energy in the same fashion as is being produced at the centre of origin of the universe. **This process of CTR is happening continuously inside an atom where electrons tend to move forward in time but electromagnetic (AF force) forces between electrons and nucleus tend to virtually stop the electrons from moving forward in time and after every non-circular orbital dance of electron around the nucleus results into increase in frequency of vibration of electron and as it approaches CFL limit randomly (not every time) which is equal to the frequency of pANEF waves. This phenomenon results into the increase of amplitude of the vibratory motion of electron. This extra energy produced results into the production of energy packets (primary particles) in the form of photons which releases whenever the frequency of electron reaches to CFL limit during its cosmic dance around the nucleus. Frequency of the photon is always less than or it may sometime equal to the frequency of the dance of electron around the nucleus.**

This is the reason why everything in this universe radiating energy in the form of electromagnetic waves all the time. When we increase the energy/ speed of electrons around the nucleus, the frequency of emission also increases. When the speed of electron around the nucleus increases, the time gap between the emissions of successive primary particles also decreases,

resulting into increase in frequency of emitted photon. Maximum frequency at which an electron, captured in a nucleus, can release energy is given by

Frequency (f) = velocity/ wavelength

$$f = 10^8 / 10^{-10}$$

$$f = 10^{18}$$

Electrons in an atom can't emit beyond x-ray frequencies.

Not only electrons but also protons and neutrons release energy through the process of CTR.

After the ionization or removal of electrons from the atom, the speed of nucleons around each other can be increased by heating to ultra high temperatures which is also happened during the explosion of hydrogen bomb in which nuclear fission is used as energy source to increase the speed of nucleons of deuterium or tritium around each other to produce very high frequency radiations which is actually a very high frequency harvesting of free-flowing energy flowing throughout the universe. Maximum frequency at which nucleons can release energy is given by

Frequency (f) = velocity/ wavelength

Here the minimum possible wavelength depends upon the size of nucleons and actual size of nucleons is not known but it is definitely far less than the measured sizes.

$$f = 10^8 / \text{unknown number definitely less than } 10^{-15} \text{ meter}$$

$$f = \text{unknown but upper limit is definitely more than } 10^{23}$$

Therefore a nucleus can emit gamma rays with upper limit of frequency definitely more than  $10^{23}$  Hz.

When energy per unit area of the ANEF waves increases due to the presence of extremely high number of photons which aid in increasing the energy of ANEF waves which in turn increase the speed of nucleons extremely high around each other and the momentum associated with nucleons become much higher than that of electrons which allow them to withstand the onslaught of hitting ANEF waves for comparatively longer time while going back in time during

the time reversal, then CTR went to next level at which secondary particles begin to produce and these particles move in all directions just like photons but unlike photons they exhibit vibratory motion and those secondary particles which go backward in time (Time is produced by its source particle because every vibrating particle is a source of energy packets (particles) and also the flow of its particle waves create its own time) in our side of the universe are called antiparticles. This phenomenon is called pair production. It also explains why pair production can't take place in vacuum because there must be a nucleus in which nucleons rotate around each other (revolution around the common centre of their combined mass) very swiftly to produce pairs of matter and antimatter particles through CTR.

## **8. Heat and the Source of energy of stars**

Heat is not the outcome of collisions of atoms with each other. It is the effect of speed of electron with which it dances in an arbitrary non circular orbital cloud around the nucleus. Greater is the kinetic energy of electrons, higher is the temperature of a body. The so called collisions of atoms, in fact, are responsible for the conduction of heat from one atom/ body to another. When two atoms or two different bodies made of atoms lie side by side, the kinetic energy of electrons of neighboring atoms get uniformly distributed among all the electrons of entire system through emission and absorption of photons. This is how heat conduction takes place. As we know that Sun is moving slowly compared to earth by virtue of its very large mass compared to earth. The sub-atomic particles of its atoms move comparatively very faster around each other than that of the earth because reduction in translational motion of heavenly bodies results into the increase in rotational motion of subatomic particles of its atoms around each other. Due to this sun is having very high temperature compared to earth and can emit radiations at very high frequency compared to earth. This is the source of energy of sun. Heavier the heavenly bodies, slowly these

will move in the void and higher will be their temperature and higher will be the frequencies of the radiations these bodies emit. Stars are harvesting the free energy, flowing in the form of ANEF waves, throughout the void. Temperature of the radiating surface of a star is given by:

$$T = \$M\left(\frac{v}{V}\right)$$

Where

‘T’ is the temperature of radiating surface of the star.

‘\$’ is the constant of proportionality having units of Kelvin per Kilogram. Its value is  $1.77445017345 \times 10^{-27}$  Kelvin/Kg.

‘M’ is the mass of the star.

‘v’ is the speed of electrons of atoms and molecules of the radiating surface of the star.

‘V’ is the speed of the star through void.

The above equation for calculating the temperature of the radiating surface of a star is based on the assumption that all stars have same density as well as composition.

*No fusion is going on in smaller stars like our sun. Only massive stars, which can have the required temperature for the process of fusion to occur, can afford the process of fusion of smaller nuclei to form the larger ones. Fusion is an endothermic process but the larger nuclei, which are byproducts of fusion, can undergo CTR of higher magnitude compared to the smaller ones thanks to their comparatively densely packed sub-atomic particles, thereby producing enormous amount of extra energy per unit surface area which has nothing to do with energy mass inter-conversion. It is just the process of harvesting of free flowing energy which is flowing in the form of Anahadnaad waves.*

*Only those stars which are undergoing the process of fusion can explode themselves as novae or supernovae. When heavier nuclei continuously increase in number, the size of the core of a star also continuously decreases in size but on the other hand its density continuously*

*increases. The reduction of surface area of the core as well as increase in energy output per unit volume through CTR can result into explosions like nova or supernova when the ratio of energy output through CTR to energy being radiated from the reducing outer surface reaches at critical level.*

Also the central bulges of galaxies are actually the collection of very massive stars revolving round each other in comparatively very smaller vicinity and the nucleons of these stars can undergo CTR of very high magnitude by virtue of very high momentum of their nucleons compared to smaller and peripheral stars. **There is nothing like Black Hole** which is believed to exist in the centre of a galaxy. Also the stars of central bulge move very slowly as a system compared to other peripheral stars and their core region can produce even electron/positron pairs, through the process of CTR, which appears as the particle jets emerging from the central bulge in two opposite directions. One of the two jets is the source of anti matter emerging from the central bulge. **Orientation of such particle jets if producing antimatter can give the indication of direction of so called expansion of the universe as well.**

## **9. So called absorption and emission of photon**

Photon (a flock of primary particles) are made of non-vibrating primary particles moving as force carrier, which enhance the quantum of energy of the wave front from  $\phi$  (Anhadnaad constant) to  $h$  (Planck's constant). When a photon (electromagnetic radiation) hit an electron, the speed of electron increases around the nucleus and the excited wave fronts carrying that extra force in the form of photons ultimately returns back to its ground state having energy below that critical level of energy. Electron which is already emitting photons through the process of CTR begins to emit at higher frequency which is directly proportional to the frequency of incident electromagnetic radiation. This is how absorption and emission of photons occur.

## **10. The notion of four fundamental forces of nature is wrong**

According to this theory there is only one fundamental force in the universe.

### **I. Anahadnaad Force**

Force between different types of particles by virtue of their phase difference with each other is called Anahadnaad Force. Mathematically, the magnitude of attractive AF force is given by:

$$F_{af} = F_{max} \sin(\phi/2)$$

Where  $F_{max}$  is the maximum AF force which exists between matter and partner anti-matter particle by virtue of being in opposite phase to each other i.e. phase difference equal to 180 degrees while  $F_{af}$  is the AF force which exists between any pair of particles having any magnitude of periodically varying phase difference ( $\phi$ ). Force of attraction between electron and proton is far more than force of attraction between electron and neutron as well as proton and neutron due to more the magnitude of periodically varying phase difference between former pair than latter pairs but far less than the force of attraction between matter and partner anti-matter particles. If the two interacting particles belong to same type i.e. both of them are electrons or protons, then the force of attraction between them will be zero due to 0 degree phase difference between their particle waves. But in the absence of attractive force, the repulsive force will prevail because ANEF waves are basically repulsive in nature. AF Force is a local force with infinite range.

Basically AF force is repulsive in nature. Only periodically varying phase difference between two particles can partially or fully (in case of antimatter particles having 180 degree phase difference with partner matter particles) cancel the particle waves (sANEF waves) of each other, which is the basis of attraction between various particles which differ in phase with each other. Here mass of a particle is very important because comparatively massive particle having

comparatively larger momentum can more strongly counter the basic resistive effect of particle waves (sANEF waves) of other particle and therefore can come more close to each other. E.g. periodically varying phase difference between proton/neutron pair is comparatively less than proton/electron pair, thereby later pair will have comparatively strong AF force between them but P-N pair revolve far more close to each other than P-E pair due to very high momentum of P-N pair towards each other than P-E pair.

## **II. Explanation of all the interactions on the basis of only one fundamental force of the nature:**

**First of all**, let me clear that force of attraction between matter and anti-matter is the strongest force of nature and its magnitude needed to be verified experimentally. It is far stronger than electromagnetism because phase difference in case of electromagnetism is comparatively very less than 180 degrees. In fact electromagnetism in itself is a limiting case of AF force.

### **A. Electromagnetism**

It is the force of attraction or repulsion between electrons, neutrons and protons. The basis of this force is the periodically varying phase difference between these particles. Its strength is far less than AF force between matter and partner anti-matter particles because of highest fixed phase difference i.e. 180 degrees while in electromagnetism, periodically varying phase difference between particles is very less than 180 degrees. The actual phase difference is needed to find experimentally. The force of attraction between proton and electron is comparatively more than the force of attraction between neutron and proton as well as neutron and electron because periodically varying phase difference between former pair is far more than the later pairs. Force between neutron and proton as well as neutron and electron is the ignored force of nature which

is actually as real as the force between electron and proton and need to be verified experimentally. We know that in electric field neutrons feel no deflection at all. This is because neutrons feel almost same force (if not same, the difference is very negligible) towards both ends of the electric field which cancel out each other. If neutrons are electrically neutral particles then why they repel each other.

**Electromagnetism was hidden inside the atoms and molecules by nature but we discover this phenomenon and also brought it out of the bounds of atoms and molecules as electrons are very easy to remove from metals but neutrons and protons are very hard to remove from matter. Also the force between N-P pair is very weak, that is why forces between neutron and proton as well as neutron and electron are the ignored forces of nature.**

## **B. Strong Nuclear Forces**

The force which holds the nucleons together in nucleus is actually the AF force between proton and neutron rather than residual effect of so called strong force.

**In Detail Explanation:-** When two sub-atomic particles interact with each other, they feel a force which repel/ attract them away from/ towards each other depending upon the outcome of interference of their respective wave functions.

**Case 1:** If somehow an electron becomes more massive, then it will dance more close to the nucleus because momentum of electron will increase in a bounded state which will help it to go more close to the nucleus. As the electron come more close to the nucleus the AF force will also increase as it obey the inverse square law which will help electron to set into comparatively more closer or smaller orbital around the nucleus. This is already proved experimentally by scientists while estimating radius of proton by using muon in place of electron which went more close

towards proton in muonic hydrogen by virtue of having comparatively large momentum than electron.

**Case 2: Deuterium has smaller radius than protium or normal hydrogen: Explanation**

In deuterium total charge in nucleus increases as neutron also exert attractive force on electron. So resultant phase difference between electron and deuterium nucleus increases which results into smaller radius of deuterium.

**Case 3: Which force binds protons and neutrons together in nucleus: Explanation**

Two or more protons as well as two or more neutrons alone can't stay together as there will be no phase difference, so no attractive AF force between them but repulsive force due to having zero phase difference will always be there. That is why you will never find such pairs in nature.

**This is the reason why Helium nucleus is impossible to imagine without the presence of neutrons.**

But as we know that proton and neutron attract each other by virtue of their unequal frequencies, though this force of attraction is very less than the force of attraction between electron and proton but still only this attractive AF force is responsible for binding nucleons together in a nucleus.

**Reason:**

Neutron is 1839 time massive than electron so it has comparatively very high momentum than electron in a bounded state. This very high momentum allow neutron to strongly counter the force waves of proton to come comparatively very close to the proton compared to electron. As N-P pair come more closer, the attractive AF force between them also increases obeying inverse square law in similar way as mentioned above in case of muonic hydrogen which allow them to stay more closer while dancing around each other than electrons which keep larger distance from nucleons thanks to their smaller momentum. So arrangement of all the three sub-atomic particles

in an atom is governed by the interplay of their momentum towards each other in bounded state and AF force between them which depends upon periodically varying phase difference with each other. The actual strength of forces between these sub-atomic particles is needed to be verified experimentally.

The Coulomb force between electron and proton is  $2.2784 \times 10^{-8}$  N by assuming distance between them equal to  $10^{-10}$  meter. Now suppose neutron has same phase difference with proton as electron has with proton then Coulomb force between N-P will be  $2.2784 \times 10^2$  by assuming distance between them equal to  $10^{-15}$  meter. So Coulomb force between N-P pair separated by  $10^{-15}$  meter will be  $10^{10}$  time stronger than Coulomb force between E-P pair separated by  $10^{-10}$  meter. But actual difference in strength is in the range of  $10^1$  times which is far less than above calculated difference due to comparatively smaller phase difference between N-P pair than E-P pair. So it is clear that force between N-P pair must be approximately  $10^9$  times weaker than force between P-E pair. That is why force between Neutron and Proton as well as Neutron and Electron is the ignored force of nature. And it is also clear that there is nothing like a separate strong nuclear force which has small range and become repulsive when distance reduces below 0.7 fm. The repulsion between nucleons at 0.7 fm distance is due to partial cancellation of particle waves which keeps neutron and proton at a distance, though very small, from each other. Only the complete cancellation of particle waves can produce total attraction all the way which happens only in case of interaction between matter and its counterpart antimatter particles.

In other words:

ANEF waves are purely repulsive in nature. Attraction occurs when these waves cancel each other through interference. During partial interference waves between interacting particles become weaker due to reduction in amplitude. This phenomenon has two outcomes:-

1. Waves with reduced amplitude still survive between interacting particles and repel them apart.

2. Interacting particles moves towards each other due to partial cancellation of waves between them.

Due to above two outcomes, it is clear that only partner matter and antimatter particles can have pure attraction between them and at the same time only particles belonging to same species can have pure repulsion between them. While in all other cases there is a combination of attractive as well as repulsive forces exist between particles belonging to different species. There exist a distance where attraction is maximum between interacting particles but as the distance between particles went below that distance the repulsive forces overcome attractive forces and results into net strong repulsion. Also attraction between these particles reduces as the distance between them grows above that distance. This is the reason why electron does not fall on nucleus as well as why nuclear forces become repulsive below 0.7 fm.

### **Let us calculate the charge on neutron**

As we know that force between proton and neutron (P-N pair) separated by  $10^{-15}$  meter is approximately 20 times stronger than the force between P-E pair separated by  $10^{-10}$  meter. It means charge on proton and neutron with respect to each other is comparatively very less than P-E pair and can be calculated on the basis of above statement as given below:

$$\text{Force between N-P pair in nucleus having diameter } 10^{-15} \text{ meter} = 9 \times 10^9 \times ((z)^2) / (10^{-15})^2$$

where 'z' is the magnitude of charge on proton and neutron with respect to each other on the basis of periodically varying phase difference between them.

$$\begin{aligned} \text{Force between E-P pair in an atom having diameter } 10^{-10} \text{ meter} \\ = 9 \times 10^9 \times ((1.6 \times 10^{-19})^2 / (10^{-10})^2) \end{aligned}$$

As we know that force between P-N pair in nucleus is approximately 20 times stronger than the force between E-P pair in an atom. Therefore

$$9 \times 10^9 \times ((z)^2) / (10^{-15})^2 = 9 \times 10^9 \times ((1.6 \times 10^{-19})^2 / (10^{-10})^2) \times 20$$

$$z = 7.155418 \times 10^{-24} \text{ coulomb}$$

The calculation of magnitude of charge on neutron is based on rough assumption that force between proton and neutron (P-N pair) separated by  $10^{-15}$  meter is approximately 20 times stronger than the force between P-E pair separated by  $10^{-10}$  meter in an atom. The actual charge need to be verified experimentally. Due to very weak charge of neutron with respect to proton or electron, the force of attraction between them is very weak at least  $10^9$  times weaker which is negligible at macro distances. That is why it is the ignored force of nature. But neutrons must repel each other with same magnitude of force as the magnitude of repulsive force between two protons or two electrons.

### **c. Gravity**

Gravity is the weakest force of the universe which is only attractive in nature. According to ANEF theory, Gravity is the second order interaction between the bodies made of clusters of atoms and molecules. Particles of all the heavenly bodies are producing particle waves which interact with the particle waves of the other particles depending upon the relative phase difference between them. This is called first order interaction in which particles belonging to different species attract each other while particles belonging to same species repel each other. But the particle waves which are the cause of interaction between particles still alive even after the formation of bounded states of particles. These alive but mixed frequency particle waves originating from different bodies of matter made of particles further enable these matter bodies to interact with each other. This is called second order interaction which is well known as Gravity “a very weak interaction” which only attracts. This complex interaction is analogous to the interaction between the parallel conducting wires carrying direct current. Contemporary science

considered this interaction as the magnetic pinch effect which is attractive if currents in parallel conductors flow in same direction and repulsive if currents flow in opposite directions. Similar phenomenon is happening in our universe where everything is moving away from the centre of origin of the universe in same direction away from the centre of origin. Also everything is made of vibrating charged particles whose motion is analogous to the flow of current in parallel conducting wires. Gravity is just like the magnetic pinch effect between matter bodies in motion which are itself moving as current through the physical void. The magnitude of current being produced by the motion of matter bodies through the physical void is very small compared to the normal electronic current as net charge on so called neutral matter is very small but non zero in magnitude which is mistakenly considered as zero (all vibrating particles are charged because charge is the effect of mutual interaction of particle waves being produced by the vibrating particles). We have already calculated the weak charge on neutron with respect to proton which is  $7.155418 \times 10^{-24}$  coulomb and is approximately 22388 times weaker than charge on E-P pair with respect to each other. If we consider that the magnitude of weak current (constituted by the so called neutral atoms and molecules made of secondary particles) flowing through the void is approximately equal to the number of EP pairs + number of neutrons time the magnitude of charge on neutron (because neutron is also considered as a neutral particle just like all atoms and molecules). Therefore magnitude of weak charge which is  $1/22388$  times weaker than charge on E-P pair and will produce attractive force approximately  $10^9$  times weaker than E-P pair. Also we know that magnetic pinch effect is  $10^{27}$  times weaker than electromagnetic force. Therefore weak magnetic pinch effect due to weak current flowing through void must be  $10^9 \times 10^{27} = 10^{36}$  times weaker than electromagnetic force between E-P pair. It is well known fact that the force of gravity is  $10^{36}$  times weaker than electromagnetic force.

It means weak magnetic pinch effect which is the residual effect of AF force is actually the force of gravity. This analogy also explains why Gravity is only attractive in nature because repulsive

force can only exist if the current in two wires will flow in opposite directions. But this is not the case as everything is going away from centre of origin of the universe and nothing is coming back towards the centre of origin.

## **11. Why Red Shift or False Accelerated Expansion of Universe**

As we know that ANEF waves and particle waves are spherical waves whose energy per unit area decreases with increasing distance from its origin by obeying inverse square law. As the ANEF waves are propagating, the energy per unit area of ANEF waves is gradually reducing. Due this reduction, the force with which particles are being pushed away is also reducing, resulting into comparatively slower cosmic dance of electrons around the nucleus resulting into reduction in frequency of emission of photons through the process of CTR. This is the actual reason of continuous high magnitude red shifting of all types of EM waves coming from atoms and molecules of different heavenly bodies. Even the EM waves coming from Sun to Earth are being red shifted. Red shifting is not the measure of accelerated expansion of the universe. In fact universe is not expanding at all. Rather galaxies are moving away from each other at reducing rate. All the heavenly bodies made of matter are moving away radially from the centre of origin and gravity is binding them together to give them spiral motion around each other while moving away from the centre of origin of the universe at decelerating velocities. The force of gravitation is weakening rather quickly between vastly distant galaxies than the closer ones. The closer galaxies are making clusters while the distant ones are moving away from each other at comparatively higher speeds. Also the temperature of all the heavenly bodies is reducing continuously due to the continuous deceleration of cosmic dance of electrons around nucleus.

## **Why less massive and smaller particle like kaon and pion are unstable while more massive and larger particle like proton is stable in our Zone:**

In our zone, particles like electrons and protons are vibrating under the influence of ANEF waves but when we create particle like kaon or pion in labs, their mother waves (which vibrate them) are not the ANEF waves but the particle waves of the nearby nucleus from which they have originated. If we consider  $\sigma_1$  as the measure of rate at which energy per unit area of ANEF waves is reducing while going away from the centre of origin of universe and  $\sigma_2$  as the measure of rate at which energy per unit area of particle waves, originating from nearby nucleus, is reducing while going away from their centre of origin. Then variation in  $\sigma_1$  will be far less than the  $\sigma_2$  as there is no comparison between the distances of pANEF waves and particle waves from their centre of origins respectively. Also the frequency of ANEF waves remains unchanged while the frequency of particle waves fluctuates continuously and always less than the frequency of ANEF waves except during the emission of photon. Due to these two factors, particles like pions and kaons are unstable while protons are stable in our zone.

## **12. Fate of the Universe**

When Almighty Supreme Consciousness will decide to again go back to the NIRGUNA form (completely motionless void), Anahad Naad energy field will cease to exist and particles of whole universe will stop moving and vibrating thereby will lose all the properties like Motion, Charge, Mass and Gravity. In the absence of these properties, particles can't form systematic structures like atoms and molecules thereby the structures like stars, galaxies and planets etc. will disintegrate and will get absorbed into "The One" infinite void from which all particles had emerged. In fact just the stoppage of motion of particles in space and time will make the particles to get absorbed into the void. As the speed of ANEF waves is 299792.458 km per second, the

absorption and disappearance of the universe will happen at the speed of light. Creation and existence of universe is tied with each other in such a way, if creation of universe will stop, it will immediately begin to disappear at the speed of light. Its disappearance will begin from the centre of its origin and will expand in spherical fashion away from the centre towards the peripheries. There may be multiple finite universes growing continuously inside the infinite void (NIRGUNA) which are extremely far away from each other like very small islands floating inside an infinitely vast ocean of void (NIRGUNA).

### **13. Conclusion and Discussion**

Further research and experimentation is required to fully explore this hidden physics of the nature. A new kind of mathematics is required to find the correlation between periodically varying phase difference of two interacting secondary particles and the magnitude of AF force acting between them. This theory can bridge the gap between relativity and quantum theory or it can give new meaning to these two so far most accepted theories of physics. This theory also uncovers the free flowing energy flowing in the form of ANEF waves in every bit of our universe. We have to find ways to utilize it to enter into the new era of existence and to materialize our dreams of abundance of resources for everyone and to become the multi-planetary galactic civilization.

### **14. SUMMARY**

**“Universe is a beautiful story written in the form of various particles and forces with the pen of energy (at CFL) on the sheet of NIRGUNA directed by supreme consciousness of Eternal Existence where individual particles and forces combined to form atoms and molecules just like individual characters combined to form words and sentences”**

**NIRGUNA (Physical void) is not an empty vacuum rather it is truly physical in nature and** is the infinite ocean of energy of supreme consciousness. This supreme consciousness is the causality of everything which emerges from the physical void by virtue of its existence as ‘The One’ the whole i.e. not made of smaller constituents. HE, in HIS NIRGUNA FORM, exists as Infinite in all aspects. His expense is infinite having infinite energy of consciousness. Every infinite entity exists as “The One” which has no boundaries at all. Creation and Existence of His finite Sargun Saroop (Universe/ multiverse) from His infinite Nirgun Saroop (physical void) also happens within His infinite Nirgun Saroop. When Supreme consciousness does something finite within the infinite ‘The Creation’ begins. This something finite is the onset of Anahad Naad (the Primordial Vibration) at some random location within His infinite Nirgun Saroop. Creation is the continuous process, when it stops, destruction begins. Anahad Naad is the vibration having finite upper limit of its frequency beyond which nothing can vibrate in this universe. This limit is called the cosmic frequency limit (CFL). The frequency of vibration at the centre of origin of the universe is always at its peak i.e. CFL, the further increase of frequency is not possible even with the availability of infinite energy. Instead of increasing the frequency beyond the CFL, the extra supply of continuous energy begins to particlized into smaller discrete finite packets of energy called particles. Anahad Naad waves are spherical in nature whose energy per unit area keeps on decreasing as they expand away from the centre of origin of the universe. At some particular distance the pushing strength of Anhad Naad waves fall below the critical level and the primordial particles can’t be carried away smoothly along with these waves. Therefore primordial particles can’t move at the speed of light and begins to feel resistance through the void. This property of particles, by virtue of reduction in their speed below the speed of light due to resistance offered by the void, is called Mass. For any particle to stay alive as separate entity in the void, it must move above the critical speed below which a particle decays into smaller

ones. Due to this phenomenon, there are different zones around the centre of origin of the universe which have different sets of stable particles. In a particular zone, the particles which exhibit vibratory motion while moving away from the centre of origin of the universe are called secondary particles. These particles may exist in different sizes having different masses/ speeds and frequencies of their vibratory motion. In our zone stable secondary particles exist in different sizes having different masses/ speeds and frequencies. These include electrons, protons, neutrons and many more massive particles. Forces of attraction and repulsion exist between these secondary particles by virtue of the phase difference between their vibratory motions induced by Anahad Naad waves. Non-similar particles, having phase difference with each other, attract each other while similar particles, which are in phase with each other, repel each other. These particles together, along with the forces acting between them, form stable bounded states called atoms and molecules 'the building blocks' of everything. These bounded states disintegrate while going from one zone to the next successive zone where different set of particles produced from the decaying of stable particles of penultimate zone involves in the formation of new bounded states (atoms and molecules). When Almighty Supreme Consciousness will stop the Anahad Naad at His will, the destruction of universe will begin from the centre of origin of the universe and will expand at the speed of light in all directions away from the centre of origin of the universe.