



Determine The Material of The Gravity Particles and Understand the Mechanism of the Universe Gravity Fields.

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Received date: February 12, 2021; Accepted date: February 24, 2021; Published date: February 28, 2020

Abstract

Introduction: The new theory analysing the issue of the universe gravity through another corner depends upon previous theories and concepts to find the way that guide to determine the material of the gravity particles and understand the mechanism of the universe gravity fields.

Purpose: Visualize the gravity issue as much as possible to clarify the multi-factors working assembly guiding gravity fields to do its function.

Method: This research is the first boldly attempt to determine the material of the gravity particles and understand the mechanism of the universe gravity fields, this attempt depends generally upon two main methods:

Results: The material gravity particles is Photon, and the mechanism of the universe gravity fields depends upon the magnetic fields of Electrons and Positrons of Photons of the gravity fields, therefore gravity fields are able to be detected via a long wave and a high sensitivity electromagnetic waves detectors, also its able to be visualized after a required modifications in our cameras to replace mirrors instead of lenses and long wave radio detectors (coils) instead the light sensors, and choosing a specific visual colour for each frequency and intensity to create images for gravity fields either which comes from a deep space due to collision of Neutron stars and black holes or from a nearby gravity sources.

Conclusion: Working of these factors assembly guide the materials objects to attract each other in the space of the universe through a tremendous values of distances and grant the integral rhythm of the interactions between the electromagnetic waves and gravitational fields.

Keywords: Determine the Material of the Gravity Particles and Understand the Mechanism of the Universe Gravity Fields

in electromagnetic waves in a different values of frequencies, while Photons are the particles of the electromagnetic waves, while the existing of another sorts of particles in the results of crashing neutrons in the materials accelerator means that these particles didn't get the sufficient energy to be crashed completely to be transferred to the electromagnetic wave as the most of materials of the neutron. Thus if we follow backwards engineering concept, we will conclude that the moment before the collision and neutrons with the obstacle in the materials accelerator that the neutrons were composed of Photons as a smallest construction unit, note that there are also some sorts of particles comes with the results of the crashing neutrons, but the biggest ratios of the results are electromagnetic waves, while as much as the energy of accelerator was higher as much as create much more crashing for the rest of particles which didn't get the required energy to be transferred to the electromagnetic wave.

Expect the model of setting of Photons in the Neutrons through the concept of the theory of permeability

There is only one acceptable probability of how these Photons setting in and Neutron, that these Photons setting the Neutron forming three dimensional spherical matrix of Photons inside the Neutron and touching each other inside the Neutron via their different charges (the positive side which represent the Positron and the negative side which represent the Electron) to build one strong construction in the Neutron which able to combine Protons in the nucleus of atoms prevent their repulsion, which have the same positive magnetic charges assembly in the nucleus of atoms, therefore when these Photons are in stable case they represent as gravity particles and represent construction units of the Neutron. Via understanding the function of the smallest construction unit of the Neutron which may represent gravity particles in its low density case and in the meantime represents the particles of the electromagnetic waves when been excited to move from the atomic gravity fields of the atom, due to jumping electrons among their orbits at plasma phase of materials. Finding the best logical probability of the formation of these Photons in the nuclear construction in stable energy state and how to expand gradually to the space around nucleus of atom to represent as atomic gravity field as extension of the nuclear constructions of materials in balance circumstances between the attraction and repulsion forces of the magnetic fields of Electrons and Positrons of these Photons, while this mechanism of the attraction and repulsion forces are also the power of collision and growth of gravity fields of different objects to form one new gravity field, grows gradually due to the attraction forces of the magnetic fields of Electrons and Positrons of Photons of these different gravity fields, guiding these material objects to attract each other in the space of the universe, because these Photons of the gravity particles have a deep roots in the nuclear construction of these material objects via a network of magnetic fields of Electrons and Positrons among Photons of the gravity particles and with same sorts magnetic fields of Photons of the atomic gravity fields and also with the magnetic fields of Electrons and Positrons of Photons of the nuclear construction units of these material objects.

Determine the material of the gravity particles through the concept of the reverse engineering

Observing the results in the moment of crashing neutrons in the materials accelerator, we find that the materials transferees to energy

Introduction

This research represent as a new theory to analyse the issue of gravity through a another corner, using some of a previous theories and logical concepts to guide us to the evidence of the material of the

gravity particles and investigate the mechanism of the universe gravity fields, linking a different environments assembly of atomic, nuclear, electromagnetic waves and gravity fields as well as the astronomy physics, in one concept to creating a one integral and fundamental new concept and theory in the gravity issue, we may also need to record the value of magnetic fields of the Electron and Positron, also the value of the active depth of their magnetic fields in the space around them, to estimate the value of repulsion force between each two same charges of these magnetic fields of Electrons and Positrons, but world's most developed quantum physics laboratories are unable to measure these values due to a technical difficulties. Therefore the fundamental concept of this theoretical research depends upon finding the best logical probabilities to recognize physics characteristics of these particles to understand the mechanism of their function in the gravity fields and finally to understand the mechanism of the gravity fields of the universe. We start investigating the smallest construction unit of the neutron and find how may these particles sitting to gather at stable energy state inside the Neutron, and how they occupy the space among electron orbits and the nucleus of atoms and beyond of the material borders of the atom to form the atomic gravity field, then how could these particles make the function of the mechanism of the attraction among the material objects to represent the mechanism of the universe gravity fields.

Fortunately during these investigations we find a many answers for a many another mysteries physics questions, such the mechanism of the function of Neutrons to prevent of repulsions among the same charges of Protons in the nucleus of atoms and what is the source of Photons of the electromagnetic waves when material emits light during their plasma phase.

Investigating upon the material of the gravity particles

The scientist Niels Bohr said in 1922 in his great atomic theory [1] ; (When Electrons be excited to jump among higher and lower orbits, it radiates electromagnetic waves), it is a great theory which gave chance to build so many another theories and built the recent human civilization.

But he didn't mentioned where from these Photons come to the atom during plasma phase when atoms radiate light in a plasma phase, therefore we would focus upon important point, during these jumps of electrons to determine, what is the source of these Photon which comes to been excite to be electromagnetic wave?

We could clearly recognize the fundamental construction units of Neutron[3] when it been crashed in the material accelerators, because it will transfer to the electromagnetic waves at a several different frequencies which have Photons particles[n], that is according to Albert Einstein's famous mass-energy equivalence formula [2] and , C = Speed of light, E =Energy, M = Mass, if we try to find how these particles sitting regularly in the Neutron before crash (at most stable energy state), there is only one acceptable probability which represent as three dimensional spherical matrix of Photons in the Neutron. We could claim that the smallest construction unit of the Neutron is Photon, these particles sitting inside the Neutron in high density and regularly, where the value of the density is the highest level in the centre of Neutron and decreases gradually as long as the distance is away of the centre of the Neutron, until it represent as gravity particles around Neutron and the atom as well, to form the atomic gravity field, note that these particles have no electric or magnetic charges in any

physics calculations, either when they represents a particles of the electromagnetic wave of particles of gravity fields, (despite of the rest of particles which are a bigger than Photons, because these bigger particles didn't been crashed completely generate the fundamentally construction units to generate Photons).

Therefore we may assume that these particles are Photons[4] in three dimensional spherical matrix of Photons inside the Neutron and touching each other inside the Neutron via their different charges (the positive side which represent the Positron[5] and the negative side which represent the Electron[6]) to build one strong construction in the Neutron which able to combine Protons[7] in the nucleus of atoms prevent their repulsion, which have the same positive magnetic charges assembly in the nucleus of atoms, therefore when these Photons are in stable case they represent as gravity particles and represent construction units of the Neutron, also the same particles of the high elevations of the surface of the Neutron will represents as a particles of atomic gravity fields, but during the excitations of materials due to jumping Electrons of atoms through a different orbits, these particles will move at a speed of light ($299\,792\,458\text{ m/s}$) to represent as energy phase of the electromagnetic waves, and this excitations of Photons to move at speed of light is due to passing atomic electrons of nearby these Photons which creates a tremendous values of repulsion force due to the collisions of magnetic fields of atomic electrons with the magnetic fields of Electrons which compose Photons of gravity particles, the reason why Photons of the construction units of Neutron move at speed of light when Neutron be crash is in the material accelerator is the demolish the order of their sitting in the Neutron at stable energy state (attracting each other via their opposite charges) to a random state where the similar charges of Electrons and Positrons of Photons will touch each other or be at a very short distances of each other to generate a tremendous values of repulsion forces, push these Photons of the construction units of Neutron to move away of each other at speed of light, because the generated repulsion forces due to approaching their similar magnetic fields are at a tremendous values upon a very small value of mass of these Photons.

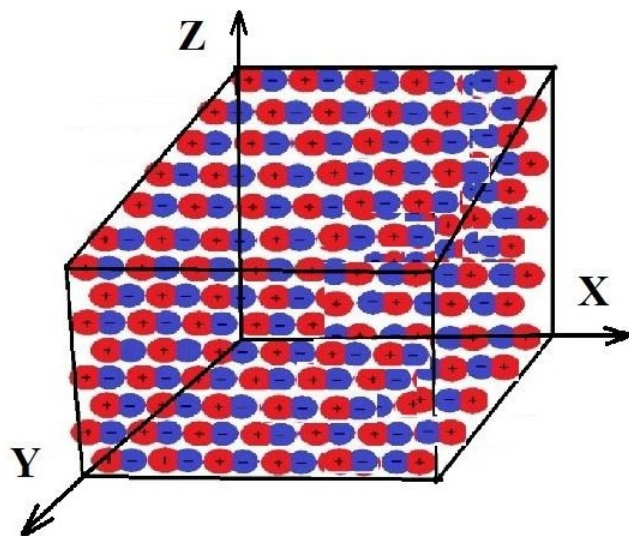


Figure1: The 3D Photonic Matrix in the Neutron.

Therefore gravity particles are Photons particularly the both particles of electromagnetic waves and gravity fields having a neutral electric charge.

The different polar of Photons give them the influences upon each other to take balance circumstances among them when they represent as a gravity particles around the material objects in the meantime this balance circumstances explains the mechanism which works in the gravity fields among material objects which generates the attraction forces to attracts material objects to each other in the vacuum space of the universe.

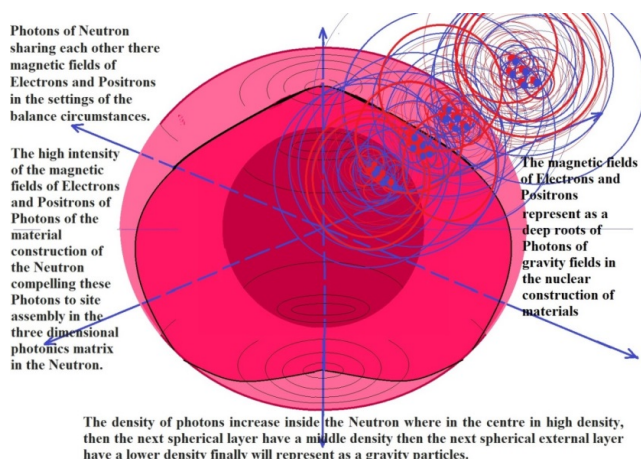


Figure 2: The three dimensional matrix of Photons in the Neutron and the deep roots of the gravity particles.

The center of the Neutron has a highest level of the density of Photons due to the highest level of intensity of the magnetic fields of Electrons and Positrons of the Photons of the construction units of the Neutron, where the density of these particles reduces as much as the distances away from the center due to the reduction of the total magnetic fields of Electrons and Positrons of the Photons the of construction units which passes through the center of the Neutron. This is why Photons of the construction units of Neutron of high elevations of the surface of the Neutron are in low density which are working assembly as atomic gravity particles and through the mechanism of the attraction and repulsion forces of the magnetic fields of Electrons and Positrons of their particles will do their functions as gravity particles and grant the gravity fields the their characteristics to run the mechanism of gravity fields.

Estimate the magnetic forces of Positrons and Electrons and the active depth of their fields

The magnetic fields of Electrons of the atoms in their orbits compelling them to keep revolving around the nucleus of atoms, due to the attraction forces with the magnetic fields of Positrons in the nucleus of atoms preventing them to escape away, while the electrons of the higher orbits have also this influence with the nucleus of atoms through a magnetic field of rest of Electrons on the lower orbits of the same atoms.

For example the radius of the Uranium atom 92 is about 230 pm and equal to 0.23 nanometer, this mean the influences of the magnetic fields of the Electron of the external (orbits 6d1) is able to interact with the magnetic fields of Positrons of the nucleus of the Uranium atom through the distance 0.23 nanometer.

For example this following Electrons configuration is for Uranium 92

1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s2 4d10 5p6 6s2 4f14 5d10 6p6 7s2 5f3 6d1 While electron in the orbit 6d1 have the influences with the magnetic fields of the Positrons of nucleus through the distance value 0.23 nanometre, in the meantime through the magnetic fields of the rest of electrons at the lower orbits 1s2 2s2 2p6 3s2 3p6 4s2 3d10 4p6 5s2 4d10 5p6 6s2 4f14 5d10 6p6 7s2 5f3, but this is a merely the minimum estimation value, because this number of the radius of the atoms during the laboratory circumstances (temperature 25 c, pressure 1 bar), while the volume and the radius of atoms of all elements expand during their plasma phase and also keep the electrons revolving around the nucleus but through a wider radiuses. Therefore whenever Electrons and Positrons forms Photons either of particles of the electromagnetic waves or particles of the gravity fields, their magnetics fields will have a very active roles either in colliding gravity fields of different materials objects or even during the interaction between the electromagnetic waves with the gravity fields as it occurs obviously in the gravitational lensing. This new concept may also represent as an extension of the atomic theory of scientist Niels Bohr; (When Electrons been excited to jump among higher and lower orbits, it radiates Electromagnetic waves), thus we could determine the source of these Photons during the phenomena of light radiation in the Plasma phase, it is due to colliding the magnetic fields of the orbital electrons with the magnetic fields of the electrons which composes photons of the gravity particles in the zone between these electrons and the nucleus of atoms, this collisions of the same sorts of magnetic fields creates a huge values of repulsion forces urge photons of the atomic gravity fields to move at speed of light.

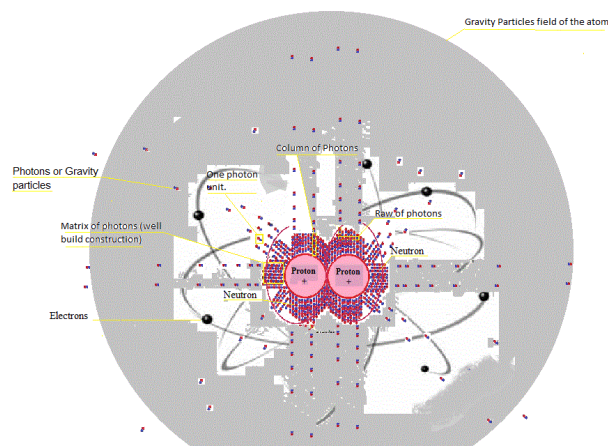


Figure 3: The atomic gravity particles emit from the nucleus of atoms.

The balance circumstance between attraction and repulsion force among the Gravity Particles

The balance circumstance between attraction and repulsion forces of the different and similar charges of Electrons and Positrons of the Photons while they form the system of gravity fields phase, gives the final distance among these Photons and the density of the gravity particles to determine the value of the gravity force at any altitude of the surface of any material object, to create the stable energy state in the space of gravity fields during the interaction among the magnetic fields of Electrons and Positrons while they compose the construction

unit of the gravity particles of gravity fields, because the fundamentally issue of the gravity force at each point in the gravity fields depending upon the intensity of the magnetic fields of Electrons and Positrons while they forming Photons of gravity particles.

Therefore this balance circumstances have a multi-functions in the gravity fields:

- Create the most stable energy state among these particles.
- Reorganize directions and locations of gravity particles in the gravity fields.
- Creates new gravity fields among several colliding gravity fields.
- Growth of the new formed gravity fields.
- Attract these material objects to each other.

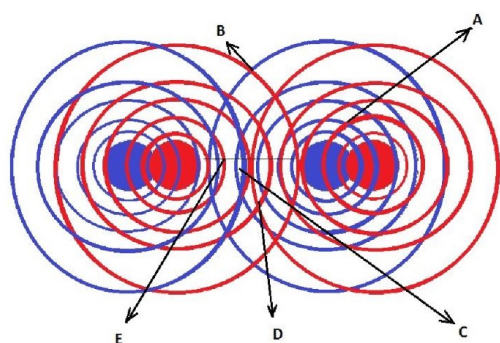


Figure 4: The diagram above shows the balance circumstances due to colliding of magnetic charges of the Electrons and Positrons among Photons of a Gravity Particles.

The diagram clarify the balance circumstance between the attraction and repulsion force of the different and similar charges of Electrons and Positrons of the Photons of the Gravity Particles to prevent these particles to collide with each other in the space of the gravity fields:

- The zone A represents the attraction force zone of the different charges of Electrons and Positrons at the same Photon.
- The zone B represents the attraction force zone of the different charges of the magnetic fields of Electrons and Positrons of the different Photons.
- The zone C represents the repulsion force zone of the similar charges of the magnetic fields of Electrons of the different Photons.
- The zone D represents the repulsion force zone of the similar charges of the magnetic fields of Positrons of the different Photons.
- E is the distance between Photons.

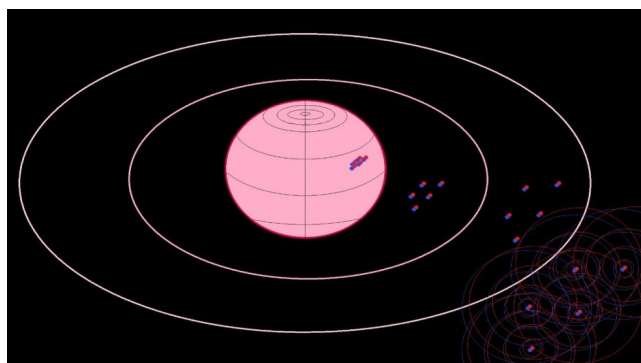


Figure 5: The gravity particles in the gravity field and their network of magnetic fields of Electrons and Positrons of their Photons.

How Gravity Fields work

When gravity fields of material objects collide with each other the Photons of gravity particles in the collision zone will organize their directions and locations, because the magnetic fields of Electrons and Positrons of Photons of the gravity particles of the second material object will confuse the balance circumstances among the magnetic fields of Electrons and Positrons of Photons the gravity particles of the first material object and will create distortions in the balance circumstances of the attraction and repulsion forces of the magnetic fields of Electrons and Positrons of the gravity particles of the both gravity fields which will compel these particles of the both gravity fields in the collision zone to reorganize their directions and locations in the collision zone to return the stable energy state among these Photons of the gravity particles to create balance circumstances among these Photons of the gravity fields of different material objects in the collision zone, thus they will create one new gravity field combines these gravity fields and their material objects assembly, where the new formed gravity field grows due to involving a rest of gravity particles nearby the collision zone to reorganize their directions and locations as well to continue the growth state of the new gravity field.

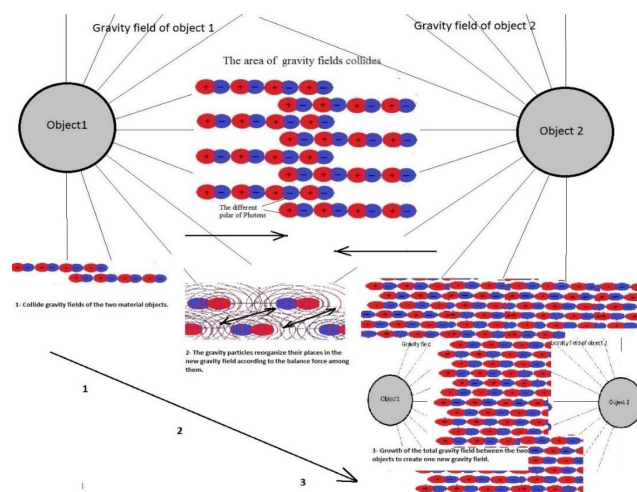


Figure 6: The mechanism of The Gravity Fields during the attraction among a material object in the universe.

It's not a condition that the density of the Photons of the both of gravity fields are at the same value, because the density of the gravity particles depends upon amount of mass in any object also the altitude from the surface of the object, the big mass objects have a high density gravity fields and the small mass objects have a low density gravity particles, therefore whenever these two sorts of gravity fields collide with each other, the Photons of the low density gravity field will exposure the high intensity of the magnetic fields of Electrons and Positrons of the high density gravity field.

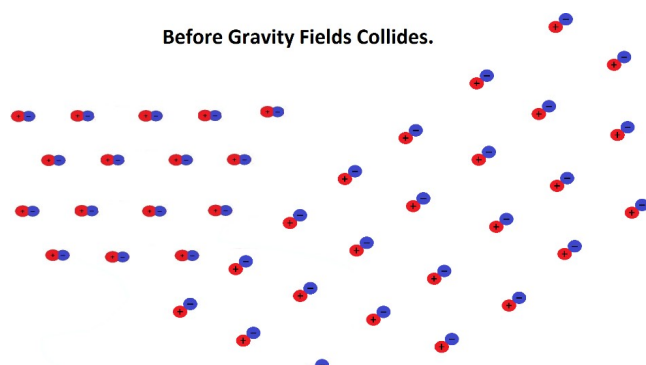


Figure 7: Colliding gravity fields.

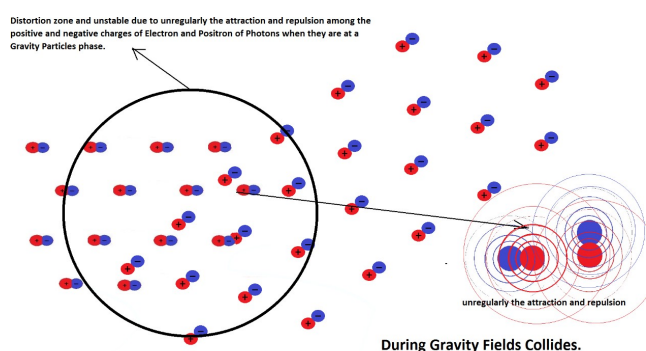


Figure 8: Creation of a distortion zone in the collision zone.

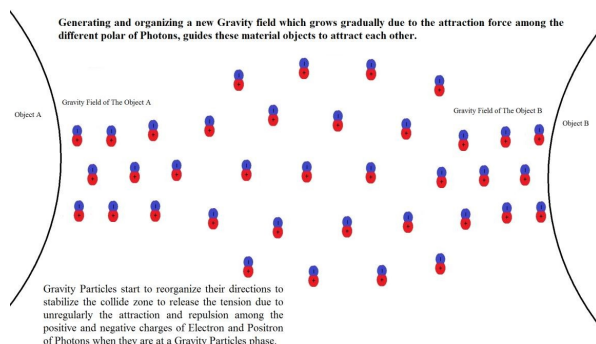


Figure 9: Particles reorganize their directions and locations.

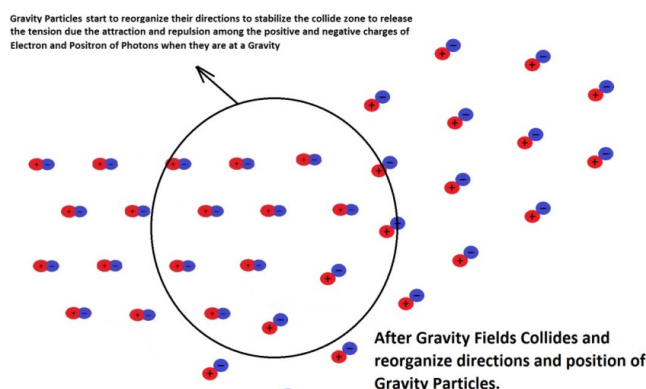


Figure 10: The gravity particles nearby the collision reorganize their directions and locations.

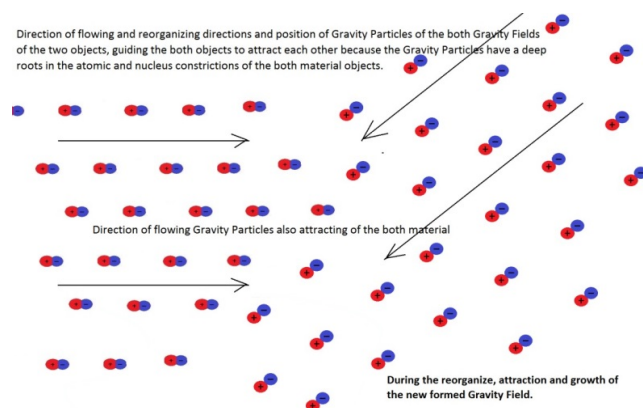


Figure 11: Growth of the new gravity field which guides to attract these objects with each other because the particles have a deep root in the nuclear constructions of their material objects.

Therefore the high density gravity field will absorb these particles of the lower density gravity field where the high density gravity fields have a higher intensity of magnetic fields of Electrons and Positrons of particles of the gravity fields which represent the reason behind the high value of their gravity forces, therefore particles of the low density gravity field of the small mass object will be solved among gravity particles of the high density of the gravity field of the big mass object, and compels the small mass object to be attracted toward the big mass object, because these particles of the both gravity fields of the both material objects linking via the magnetic fields of Electrons and Positrons of their gravity particles with each other and with the particles of the atomic gravity fields as well as with particles the nuclear construction units of these material objects, therefore the growth of the new formed gravity field creates attraction forces which guide these a different material objects to attract each other and collide at their different values of mass in the space of the universe.

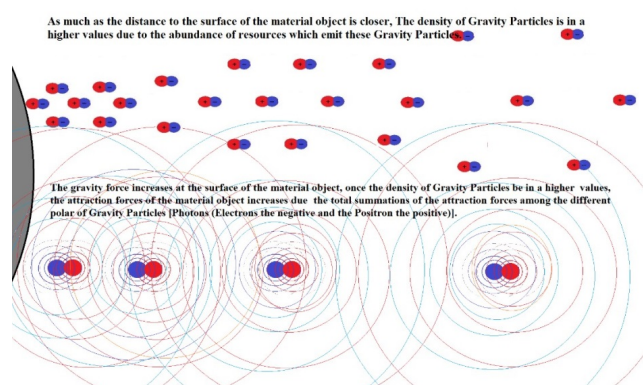


Figure 12: The density of gravity particles reduce as much as their distances are away from the surface of the object therefore reduce the intensity of the magnetic fields of Electrons and Positrons of their particles and finally reduce the gravity force.

Because this network of magnetic fields of Electrons and Positrons of gravity particles in the gravity field with the magnetic fields of Photons of the nuclear construction of the Neutrons represent the deep

roots of gravity particles in the nuclear construction of these material objects.

The magnetic fields of Electrons and Positrons granting Photons of the gravity fields the possibility to be interacted with the magnetic fields of Electrons and Positrons of another gravity field of another materials object in the collision zone and even the interaction with the magnetic fields of Electrons and Positrons of Photons of the electromagnetic waves, as occurs in the gravitational lensing phenomena, because the magnetic fields of Electrons and Positrons granting Photons of the electromagnetic wave the material characteristics and determining the functions of the gravity particles during the attraction among a material object, we see how the different and the similar magnetics charges of Electrons and Positrons working assembly to create the balance mechanisms among gravity particles, growth of the gravity fields and the mechanism of the gravity fields among a different material objects which generates attraction forces to attracts these material objects toward each other in the vacuum space of the universe through a thousand or a millions kilometers or even more.

The function of a gravity particles while gravity fields collide

- Collide gravity fields of the two material objects.
- The Gravity Particles organize their directions and places in the collision zone to create a stable energy state among gravity particles of the both gravity fields, due to confusing in the of balance circumstances among the gravity particles of gravity field, via the interaction of their similar and different magnetic fields of Electrons and Positrons when they form Photons of the particles of the both gravity field.
- Growth of the total gravity field between the two objects to create a one and new gravity field due to the attraction among the different magnetic fields of Electrons and Positrons of Photons during the balance circumstances between the attraction and repulsion of the similar and different charges of Electrons and Positrons when they form Photons of the particles of the gravity field.
- Attraction among these material because these gravity fields have a deep roots in the material construction of the Neutrons due to the network of magnetic field among Photons the Gravity Particles and Photons which represent the smallest material construction unit of the Neutrons.

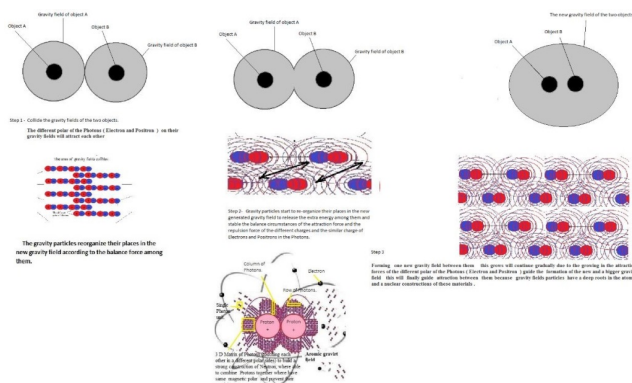


Figure 13: The mechanism of the gravity fields and particles during the attraction among material object in the universe.

Conclusion

- The gravity fields and the electromagnetic waves are in active and integral panoramic rhythm in the universe, where the both have the same particles, these particles change their locations from the zone of the atomic gravity fields to be transferred to the electromagnetic waves during the plasma phase of materials, because when Electrons of atoms jump among their atomic orbits urge these Electrons to be moved at speed of light (due to the high repulsion force generate during the collision of the magnetic fields of Electrons with the magnetic fields of Electrons of Photons of the particles of the gravity field in the atomic gravity field), while any lack of Photons in the atomic gravity field been compensated during this procedure via absorbing electromagnetic waves via these materials and this mechanism of moving Photons in these two mentioned phases occurs in a very short time at about a nanosecond granting Photons of the electromagnetic waves of the closed cycle characteristics due to this integral rhythms of the mechanism the gravity fields.
- The two sorts of fields are also in integral panoramic rhythms in their interactions with each other, due to the material characteristics of the Photon which comes from the magnetic field of Electron and Positron of Photons to create the gravitational lensing around immense gravity fields.
- The mechanism of the balance circumstances among the attraction and repulsion forces of the magnetic fields of Electrons and Positrons of Photons of the gravity particles have a multi-functions: Prevent a complete attraction and collision among Photons of the gravity particles in the space of the gravity field. Interact with the gravity fields of other materials objects to form a new gravity field combining all gravity particles of these materials objects assembled in one new gravity field guide these materials objects to attract with each other. Form a network of magnetic fields of Electrons and Positrons of Photons of the gravity particles among each other in the high altitude above the materials objects and magnetic fields of Electrons and Positrons of Photons of the gravity particles of the atomic gravity field and finally with the magnetic fields of Electrons and Positrons of Photons of the main construction units of the Neutrons of the nuclear construction of these materials objects. The magnetic fields of orbits Electrons of the atom is the reason behind exciting Photons of the electromagnetic waves from the atom during the plasma phase of materials, due to the interaction with the magnetic fields of Electrons and Photons of the particles of the atomic gravity fields the zone between orbital Electrons and the nucleus of atoms, to create a tremendous values of repulsion force to urge these photons to move at speed of light and this is the source of Photons of the electromagnetic wave of the materials in the plasma phase.

Working on these factors, assembly guides the materials objects to attract each other in the space of the universe through tremendous values of distances and grant the integral rhythm of the interactions between the electromagnetic waves and gravitational fields.

References

1. Aaserud F, Heilbron JL (2013). *Love, Literature and the Quantum Atom: Niels Bohr's 1913 Trilogy Revisited*. Oxford: Oxford University Press. ISBN 978-0-19-968028-3.
2. Hecht E (2011) How Einstein confirmed $E=mc^2$. *Am J Phys* 79 (6): 591-600.

3. Thomas AW, Weise W (2001) *The Structure of the Nucleon*, Wiley-WCH, Berlin, ISBN 3-527-40297-7.
4. Joos George, Freeman IM (1951). *Theoretical Physics*. London and Glasgow: Blackie and Son Limited.
5. Mohr PJ, Taylor BN, Newell DB (2006). CODATA recommended values of the fundamental physical constants. *Rev Mod Phys* 80: 633-730.
6. Buchwald JZ, Warwick A (2001). *Histories of the Electron: The Birth of Microphysics*. MIT Press.
7. Mohr PJ, Taylor BN, Newell DB (2015) *The 2014 CODATA Recommended Values of the Fundamental Physical Constants: 2014*, National Institute of Standards and Technology, Gaithersburg, Maryland, US.
8. Larson R, Hostetler RP (2007) *Elementary and Intermediate Algebra: A Combined Course, Student Support Edition* (4th illustrated ed) Cengage Learning. ISBN 978-0-618-75354-3.
9. Livingston MS, Blewett J (1969) *Particle Accelerators*. New York: McGraw-Hill. ISBN 1-114-44384-0.
10. Particle. AMS Glossary. American Meteorological Society.
11. Berestetskii VB, Pitaevskii LP, Lifshitz EM (1982) *Interaction of electrons with photons. Quantum Electrodynamics* (2nd ed), CHAPTER XII - Radiative Corrections.
12. Blaise J and Wyart JF (1992) *Energy Levels and Atomic Spectra of Actinides*, Int'l Tables of Selected Constants 20, Tables de Constantes, Paris.