

FUNDAMENTAL SINGULARITY OF ALL PHYSICAL SCIENCE.

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Abstract.

approach tries step forward physics by proposing a new way to look matter and address some dogmatic issues that required to be solved by right interpretation this new theory is simple and may explain all physical phenomenon, and most Nature' underlying fundamentals.

Philosophy which was guidance of physical science, since physics and mathematics was a part of natural philosophy before 20th century. Science get developed well time after time, but after the beginning of 20th century we have already experienced imbalance of the knowledge, this means that experimental physics, and mathematics may extremely advanced and be more complex than it's logical meaning, as theoretical part decreases and perhaps will finally be forgotten near future. This approach points out some risks may go a limit that we can't make any explanation about the Nature fundamental issues. In other words, what was simple to understand before long time is the most difficult one today. Through the advancement and it's complicity the Experimental physics and Mathematics may finally illimitable theoretcal physics and all philosophical views..

What is Fundamental?

The Nature fundamental particle can be defined as a particle which is indivisible "Atom" and homogeneous particle in terms of Shape, size and mass, force and we propose it to be Photon, although it may already faced a name confusion, since many hypothetical particles of different manifestations of same thing.

All other composite particle (including electrons proton, neutrons quarks and dark matter) are composed, Due to gravitational force in two sub category, namely charge and neutral..

Some evidences that previous version of this theory predicted/confirmed in 2010.

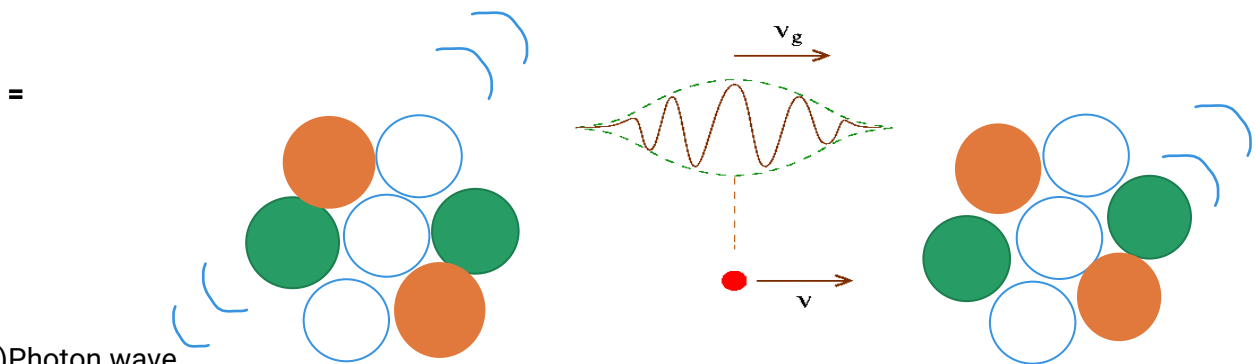
- 2012 Higgs mass mechanisim Confirms that any partcle speed of light (total kinetic energy) even photons has mass
- 2015 Neutrinos Mass. After long time of wrong thought "massless" neutrino have mass.
- 2017 Gravitational Wave Detection

- Dark matter Event.

What Neutron star (WIMPs) really is made of?. By neutronstar-Neutronstar collision formed some elements (ordinary matter).

(a) Charge carrying particle

Proton/Electron and photon(Waves.packet)



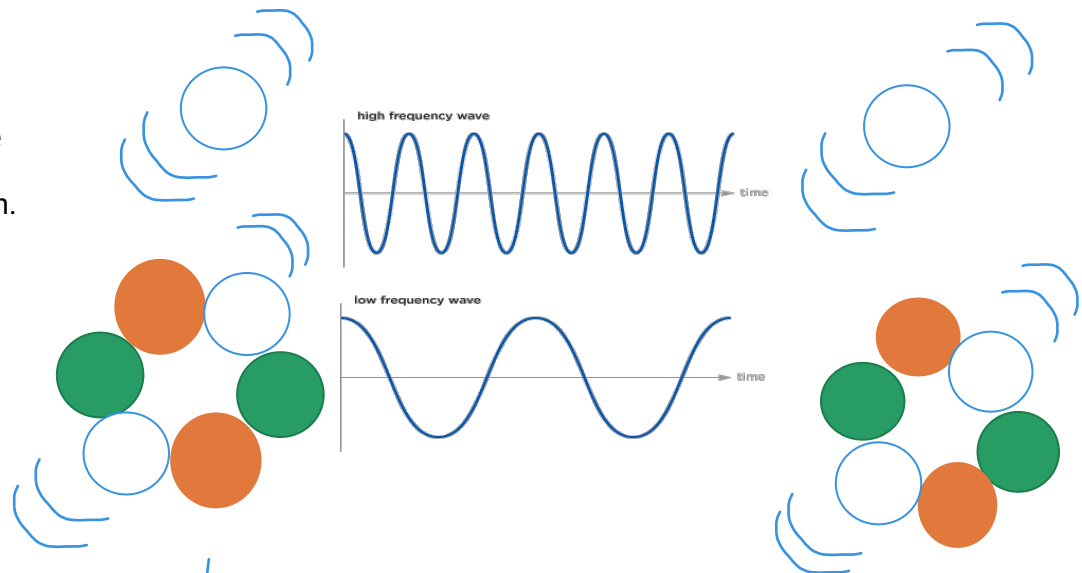
(b) Photon wave

Vibrations

+

(c) Matter wave

Neutral/Neutron.



The figure shows a simplified model of 2D view of the elementary particles close spherical packing and its interactions as matter waves. This simple view is central idea that theory is actually based on, and explains all physical known phenomenon, even string theory. By considering a homogeneous elementary particle as photon, and charge its primary gravity.

After lot of research with thought experiments with significant proof I have got a answer which is based on Natures semilarity. what we experience the Nature at macro level is also good indication at micro level.of Nature fundamental.

Some historical events.

Sir. Isac Newton set the matter in action. He formulated the theory Of Gravity. Theory that is based particles in universe attract, and Chadwick made experimental confirmation later.

John Dalton wrongly thought that he found atom that was different than Democritus, but his idea is very important and useful until today,

Avogadro corrected some Dalton's errors and Quatized Chemical elements

After Galvani, Alessandro Volta revealed electrical potential and Benjamin Franklin coined term electric charge negative and positive, Charles-Augustin de Coulomb made an essential development the theory of electromagnetic force Being an inverse-square law, it is analogous to Isaac Newton's inverse-square law of universal gravitation. One of significant difference is charge and mass.

Michael Faraday was one of great scientists who unified many types of electricity, and also tried to verify relationship between mass and electric charge. He seems to be unhappy, the idea that the underlying fundamental law is different types forces(electric and gravity).

In 1849 he tried to unify Electric and Gravitational Forces, though He seems that he had a strong institution that grants " Nature has one fundamental force" his experiment of Unification was not succeeded it. Afterwards He looked another way to solve it and continued to set good foundations to Elegromagetic showing interaction between Light and magnet.

James Clerk Maxwell formulated the electromagnetic radiation in a dynamical way "Electrodynamics". His explanation was similar the Newtonian particle dynamics.

In other word the Maxwell equation of Light which two well known physical phenomenon, electric and magnetic, explains light from a particle of chemical elements as planet like dynamics.

After Eugene Goldstein and J J Thomson showed Positive and Negative Particles, then Nicola Tesla did advanced formulations of Magnetic force at the end of 19th century there was a clue that natures fundamental could be determined.

"If you want to find the secrets of the universe, think in terms of energy, frequency and vibration"Nikola Tesla.

Alfred Nobel a great scientist offered most part of his wealth to secure that and other most important achievements for the Humanity.

Since the similarity of "elementary charge in circular motion" and planet in circular motion, there was a hope that comparison could be possible in terms of Light and Gravity (Gravitational wave), Electrostatic force and centrifugal force, Speeds, frequencies, radii, Forces Energies, Masses, etc may come to question.

The 20th century began with Max Planck who made some significant advancement of EM. He enlightened Maxwell's theory from the angle of the Energy, by quantizing of the EM Energy in accordance of frequency.

The young man Albert Einstein became inspired by Planck's work. He concluded his first famous equation which imply his central idea about all matter (even the light quanta photon) and gravity, that is why he predicted many physical event relating to Gravity. His particle like version of equation became one of the most important equations in modern science.

His wonderful predictions was hard to believe by contemporary physicists until experimental evidence, since it missed complete explanation.

- That even the light interact with a massive object this indicate gravity.
- Existence of gravitational wave.
- Another fact of his intuition was that all forces can be unified GUT, as it called Einstein's Dream.

Regarding these ingredients of his ideas, was based shows us that he had the insight photon as particle and the term " Photon" were originally proposed to be a particle that mediates Light (EM),

The particle (Photon) that Einstein quantized its Energy required an experimental evidence before making right interpretation, but after debates with other physicists including Neils Bohr failed to get right explanation about whether the Photon is particle or wave, and it remained unclear.

De Broglie hypothesised a new way to measure the relations of matter waves from the side of their wavelengths and momentum.

Thereafter Quantum Mechanics interpretation with many strange ideas treated the concluded that photon is both wave and or particle, "Wave-Particle duality", and that it scatter in uncertain illogical ways in accordance to the nature's known phenomenon.

Einstein as physicist and philosopher, became unhappy with result of QM interpretation, as he sometimes said, "spooky action" and more.

Later in his life, he declared that he didn't find the missing bit (the key of General understanding)

"All the fifty year of conscious brooding have brought me no closer to answer the question, "What are **light quanta**?" Of course today every rascal thinks he knows the answer, but he is

deluding himself" Albert Einstein.

The question reflects what is photon? Since understanding the term of Photon is important for quantizing the nature's most fundamental "light quanta". Since a clear understanding of Light and Photon can explain all natural phenomenon.

After Rutherford, Chadwick Discovered nuclei particles charged and Neutral and Lawrence's particle accelerators and Hubble constructed gigantic telescopes to observe forms of matter and it's events, the experimental Physics seems to be ready and waiting for right physical interpretation namely, questions that arose.

Quantum Mechanics.

"Mr. Dalton's permanent reputation will rest upon his having discovered a simple principle, universally applicable to the facts of chemistry – in fixing the proportions in which bodies combine, and thus laying the foundation for future labors... his merits in this respect resemble those of Kepler in astronomy." HUMPHRY DAVY

If you substitute the terms Dalton and Chemistry to QM and... You may probably get same meaning. Although lot of advancement it seems that physicists wrong way of viewing Nature's fundamentals and its failed experimental evidences result even more serious misleading reputation terms over last century.as many hypothetical massless gauge particles and hypothetical forces. Some most restrictions are;

In classical physics there was a right but incomplete statement (required to update) about nature of electric charge which says "**same type of charge repel and different type of charge attracts**".

How Coulomb would conclude his law, if he know that nuclei has protons that same type of charge are attracting each other and with the neutrons? and they can be divided into fractions of charge?.

- What holds protons in the nuclei together? If electric charge, then violates charge repulsion, and if Gravity then it makes contradiction, that Gravity is extremely Stronger than electrostatic force, which is wrong in classical physics. Therefore another hypothetical fundamental force is filled this gap, "stronge force".
- Another unstable particles, weak force is said to be the one that holds together.
- The case protons and neutrons is Gravity holds together.
- There are also many hypothetical particles included each new force.
- The massless term which mean zero mass makes the situation unthinkable.

Chemistry

Chemical bonding explain only ionic binding electric terms leaving other physical intermolecular

forces and other macro scale bindings as reputation terms like Van Der Waals , covalent electron pair binding clues gravity and a well physical Interpretation could be hints about Natures fundamental. However In Chemistry type force is not the question but physics must answer!.

Interpretations

Paul Dirac was one of very few scientists that was struggled to find complete understanding and after he noticed QM incompleteness he spend his later years by reconnecting Atomic theory to common universe similarities, and his last approach that really inspired me was that atom(proton-electron) is somehow similar to our planetary system (Earth-moon.... or...).

Taking an entirely different approach to Heisenberg's, Dirac presented quantum mechanics in a way that made clear its links with Isaac Newton's classical mechanics.

Why Electron and Proton are same in Charge (+1 and -1) but different in polarity and Mass?

From that point of view we could even think that these different masses have same thing in them.

After above demonstrations, the only same property they share is the magnitude of the force (1=1). Another important questions may arise.

What's real mechanism for Neutrons (particle) and charge(force)?..

Quark's Charge quantum.

Proton is made up $2/3+2/3+(-1/3)= +1$. Neutron $2/3+(-1/3)+(-1/3)=0$. and Electron $2/3+(1/3)=1$. Multiplying both sides by 3 we obtain 3, 4, 5 or 3, 0, 1. what you think 3, 4, 5? or 3, 0, 1. numerical characteristics?.

Parity has been simple numerical analysis Odd and Even numbers are two important characteristics of numbers.

$n=2k$ for **Even** number $n=2k+1$ for **Odd** number (1)

The term of "elementary charge" seems to be right. There is elementary particle in each particle. That elementary particle type is photon.

The case of charge, such as electron and proton, we may consider the quantity of photons they are made of, as an odd number, and the sum of both ODD numbers equals an EVEN number (neutral).and .the difference of force magnitudes between charged and neutral is;

In the elementary charge we would say tha it is a "Primary type of Gravity" or "Mono Gravity". Since the matter is made Quantity of a homogeneous (one type) of particles, that attracts each other, form two main particle grouping *Neutral and Charged".

RELATIONSHIP

Pauli exclusion can be summarized as "Electrons in different but 2 electrons in every orbit". On the other hand neutrons, electrons and protons are interrelated for both chemical and physical stabilities.

Maria Goeppert Mayer's discovery of Nuclear Magic number relates Pauli principle, all other physical stability of spherical shell, it also imply to the number protons plus neutrons that is EVEN number to fill a stable shell of the nuclei.

String theory and Matter wave.

Since "String theory is a broad and varied subject that attempts to address a number of deep questions of fundamental physics. String theory has been applied to a variety of problems in black hole physics, early universe cosmology, nuclear physics and condensed matter.

This theory approaches give explain all matter forms, in multidimensional graphical description as pair of opposite particles, Since the Nature mater and force tends to some kind of equilibrium Parity is an important key for structural balancing and difines every string as a matter wave from two opposite particles of the spherical shell. Every string is one dimension of pair of elementary particles. Initial strings as a dimensions are shown in figure of previous essay 2010

Electrostatic force is Gravitational centrifugal force between electron-proton attraction caused by effect known as charge which really is photon-photon attraction. Gravitational pairing of the photons located at center to center.

Light is composite electron's total matter wave including photon which is locked in the electron's central position (photon is one point like spherical particle in the center of electron). The case of proton which is a electrical charged particle there is one photon in it's center.

Pairing that two photons pairs also electron-proton and net force will be zero (Neutral). That's is mechanism of the elementary particle charge, light, and

Stronge and Weak force are both a Gravitational force.

$$\frac{F_k}{F_G} = \frac{k \frac{q^2}{r^2}}{G \frac{Mm}{r^2}} = 10^{38} = \frac{1}{q^2} \quad (2)$$

EM and Gravitational wave. (Photon and Graviton)

Matter wave Dynamics with Infinitive Range with same Speed of light c and interact each other as proofed with interferometer.

Since Photon is the Fundamental building Blocks the Nature's atom, and one type of attraction force(Gravity) between these homogeneous particles, parity of different initial grouping took place just like our numerical parity (Odd and Even). Force into two main categories force effects.

Odd we coined charge and Photon is related to charge and net charge(Even) is effect we call Gravity that we related to hypothetical particle (Graviton).

This theory proposes that Charge is a type of Gravitational force due to non equilibrium configuration of the elementary particles (photon). This means that Electron and Proton has one elementary particle locked in the center in each (centered particle).In other words, the Charge is Nature's elementary particle's Gravitational force.

repulsion and attraction is about collision/ non collusive. of orbiting particles due to directions.

Newton's third law states: For every action, there is an equal and opposite reaction.

Dark matter

Black hole has strong Charge effect and can be as big Proton. Non pulsing Neutron star no charge effect and can big Neutron, but the case of pulsing there is weak charge effect..

Antimatter

New way to resolve the view of matter and antimatter "If particle in nuclei is out from the electron shell (Nuclei) has not the property repulsive".

and propose to look these

particle's gravitational behavior.

it can be experimentally

determined low energy since

every opposite particles

including even neutron-antineutrons, or Positron and electron is same a significant proof is gravitational behavior of protons and antiproton GBAR decelerators(ongoing experimental activities.

$$F_1 = mg \quad F_2 = m(-g) \quad \text{sum } F_1 + F_2 = 0 \quad (3)$$

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