Unified CPH Theory

Force, Energy and Mass

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Introduction

For Newton, the force of gravity was merely a function of masses and the distance between them. For Einstein, gravity was caused by a deformation of space-time continuum. On this basis, he developed a highly complex algebra that merely describes it geometrically. Nowadays the majority of studies explain only the effects of gravity and not its nature.

The unification of gravity with electricity has been a challenge for many great physicists of the last century. Einstein dedicated almost 35 years to the problem without success, while, in 1968, Dirac suggested that it would not be possible to unify the fundamental forces.

Was Dirac right? Isn't a unified force in nature? We know many Physical Scientists had been working hard to find a unified field theory. Also, they predicated many interesting theories. In this field hardest efforts had belonged to String Theory.

I had believed any effort for finding a unified theory without considering conversion of the force and energy does not have any considerable success. In fact there is a unified force/particle in nature. In other words, Force, Energy and Mass had formed a unified fundamental particle that calls CPH in Theory of CPH. In Theory of CPH, Force and Energy are convertible. Also according to Relativity, mass and energy are equivalent. So, Force, Energy and Mass are three manifests of a unified entity that is called CPH. And we should change our perception about force, energy and mass.

Definition of CPH

Suppose there is a particle with mass of m that is moving with speed Vc in an inertial frame. And Vc>c and c is the speed of light. So, its linear momentum gives mVc. (Figure 1). It is Called CPH (Creation Particle Higgs).

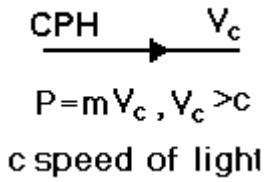

Figure 1

Principle of CPH

CPH is a particle with constant mass m and moves with constant speed Vc.
CPH has the momentum of Inertia I. In any interaction between CPH and other particles/forces, the amount of Vc does not change, so;

gradVc=0 in all inertial frames and any space

Explain

According to figure 1, a CPH carries linear momentum of P=mVc. So, CPH has inertia and also has Momentum Inertia I. When an external force is applied on a CPH, then a part of its Linear momentum (P=mVc) converts to angular momentum and CPH takes Spin, so that the amount speed of CPH does not change in any case. When CPH has Spin, it is called GRAVITON. (Figure 2)

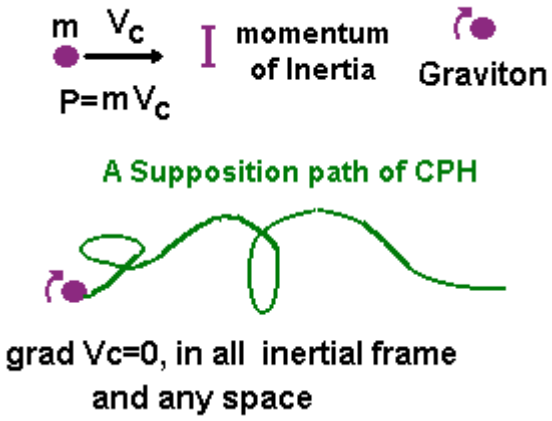

Figure 2

When a graviton works on an object/particle, graviton does disappear and converts to energy. Because it is not acceptable that force acts and produces energy; and force does not have any effect on itself while producing energy. All efforts for finding a unified field theory had no success, because physicists do not consider the conversion of force and energy. Also, a graviton acts on another graviton and produces energy. See Figure 3.

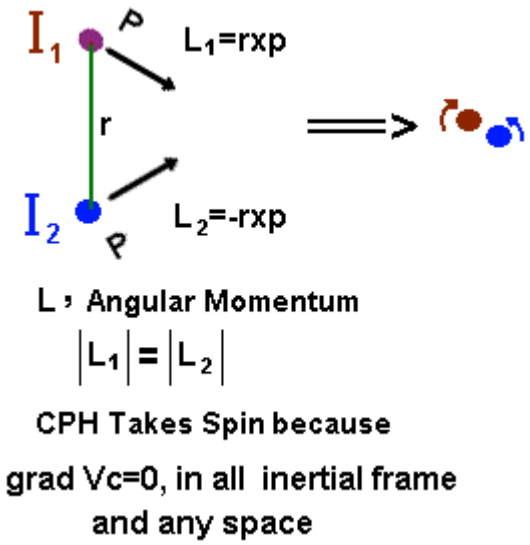

Figure 3

The picture above shows two gravitons with the mass of m, speed of Vc and linear momentum of P=mVc, in distance of r feel each other. They absorb each other and “r” decreases. But CPH must move with the speed of Vc, so it loses a part of its linear speed and takes Spin.
A Photon is formed by a lot of CPH that they have spin and photon has spin too. So, when a photon is traveling with speed of c, CPH has linear speed of c and it has spin itself, and a speed equal to the speed of the photon (according to the structure of photon).
In a gravitational field, when a photon shifts to blue, gravitons convert to energy. And when the photon shifts to red, energy converts to graviton. And when energy decays, it produces Matter and Anti-Matter. See Figure 4. In fact ever thing formed of CPH.

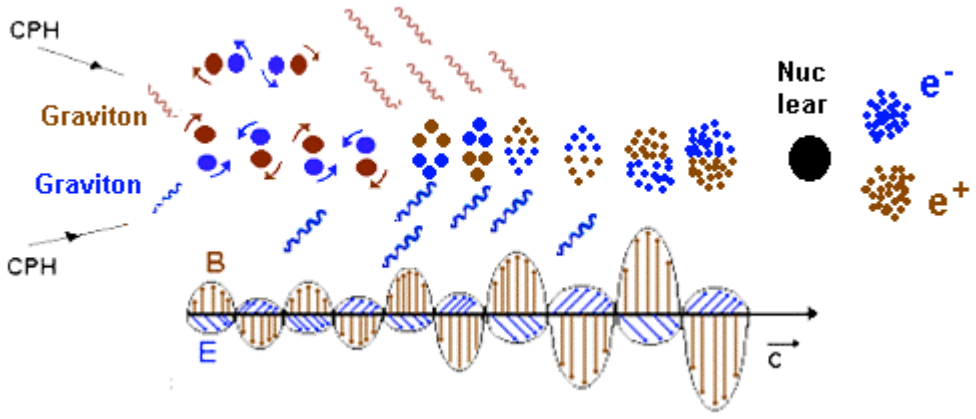

Figure 4

CPH Theory propounded that force and energy is equivalent, so CPH theory may provide the answer. From one principle - that CPH moves with constant amount of speed Vc and gradVc=0 in all inertial frames in any space - CPH theory provides a single explanatory framework capable of encompassing all forces and all matter and anti-matter.
CPH theory proclaims, for instance, all observed particles/objects consist of CPH. They can come in forms of masses, energies, fundamental particles and fundamental forces. The strong and weak nuclear forces, electromagnetism, and gravity **--** are reflections of various ways in which a CPH can move in the same structure of matter or photon. Just as photons or gravitons in empty space, light or gravity effects reach the earth from a very far star.
CPH is pure gravity force. CPH moves with speed of Vc in an inertial frame if no external force is applied on it. When an external force is applied on a CPH, it takes spin and is called graviton. So, Vc equals the speed of graviton (in an inertial frame), when it has no spin.
In fact a CPH is a sub-quanta of existence in nature. CPH has mass that is a manifest of matter; its movement is a manifest of energy. CPH has sub-quanta bounding gravity field around itself.
A CPH feels another CPH by this sub-quanta gravity field. Also, two CPH absorb each other by their sub-quanta fields. See Figure 5.
Photons (and all subatomic particles) are formed by many CPH that they have spin; and photon has spin too. So, when a photon is traveling with speed of c, CPH has a linear speed of c and it has itself spin and a speed equal to the speed of the photon (in the structure of photon or other subatomic particles).

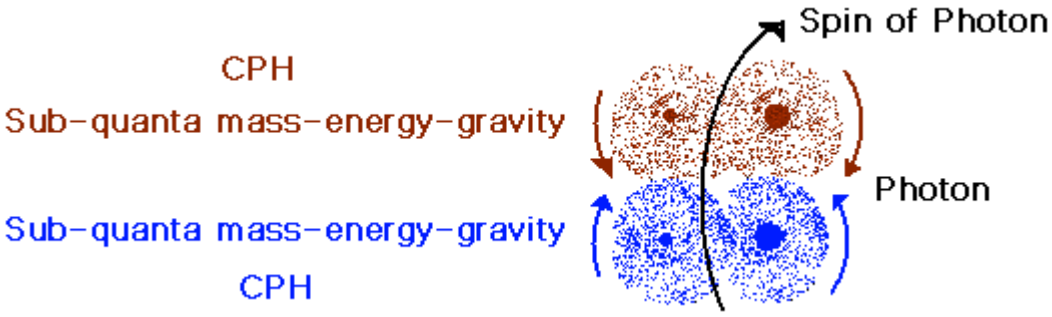

Figure 5

So, quantum energy is formed by a lot of CPH. Also, CPH (gravitons) work on CPH and produces energy. In the other words, force and energy are equivalent. Force converts to energy and energy changes to force. Fore example; force converts to energy in blue-shift and energy converts to force in red-shift.
Two objects/particles (like the moon and the earth, or an electron and a proton in an atom) transfer CPH continuously.

Photo Electric and Compton Effect by CPH

According to CPH theory a photon contains n number of CPH that they are moving with the speed of c in the structure of photons. The given mass of a CPH is m, so its momentum is P=mc and the momentum of photon is P=nmc, see Figure 6.

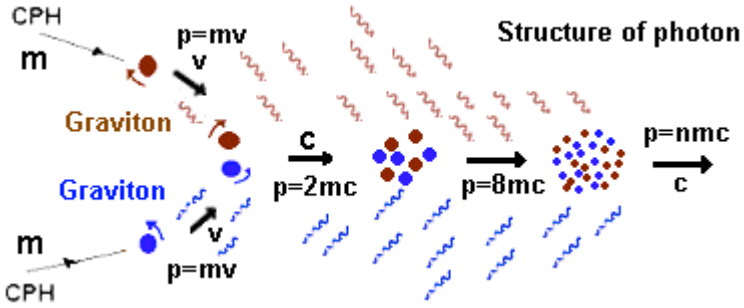

Figure 6

When a photon collides to an electron, a number of CPH that exist in the photon enter the electron. See Figure 7.

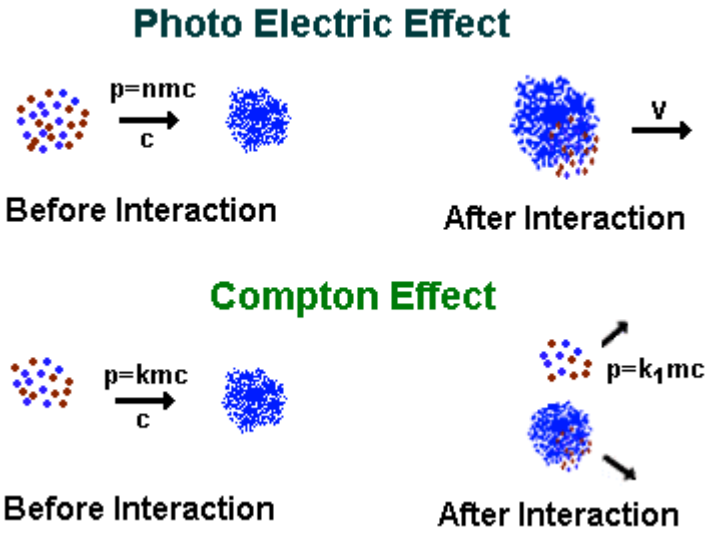

Figure 7

In photoelectric effect all CPHs of photon enter the structure of the Electron. Consider that it will happen if the amount of the energy of the photon is sufficient.

In Compton Effect some CPH enter the structure of the photon and other CPHs do not enter.
In the picture above, k>k1 and k2=k-k1 when CPH is joined with the electron.

Spring;

Take a look at spring. There is a spring with one of its sides connected to the wall (Figure 8). In formal physics it is defined by the conversion of potential energy and kinetic energy. Let us explain it according to the conversion of force and energy.

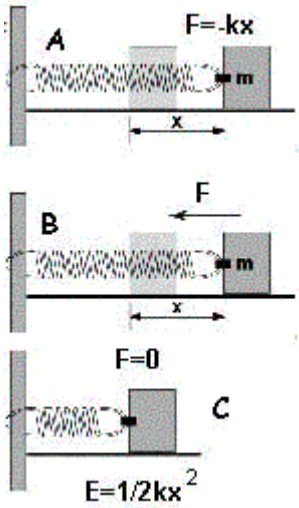

Figure 6

A. The spring is pushed by hand. During the time that hands were pushing the spring, hand's energy converts to force. In fact a lot of CPHs leaves the hand and enters the spring. The momentum of these CPH is transferred to the spring. Hands had lost momentum (and energy), and spring gained momentum and energy. It is such as the following:
example; a wagon has a lot of sand that collides to an empty wagon. Some sands leave the first wagon and enter the empty wagon.

In situation A, F= **-** kx and its direction is toward the left side and energy equals zero: E=0.

B. Force is converting to energy. Spring will return to its equilibrium situation. Object opposes with the spring's movement. The force of the spring converts to energy and the amount of force decreases and energy increases.

C. No force is applied on an object, but energy is maximum: the Object is moving toward the left side and its energy converts to force.

Gravity

According TO CPH Theory, gravity is a currency among objects. For example consider the interaction between the earth and the moon:
Earth has a gravitational field. The gravitational field is formed by gravitons that are moving toward the earth and they are interacting with each other. Suppose the earth is alone and there are no interactions between earth and other bodies in universe. When gravitons reach the earth, the earth absorbs them. Then gravitons obey all forces around them. But the earth is not alone and it has interaction with other bodies. Take a look at earth and moon. There are two fields; one is around the earth and the other one is around the moon. When a graviton reaches the earth, the other one moves toward the moon and pushes the earth toward the moon. (Remember flow and ebb). Also when a graviton reaches the moon, the other one moves toward the earth and pushes the moon toward the earth. So earth (In fact every thing) is bombarded by gravitons continuously.

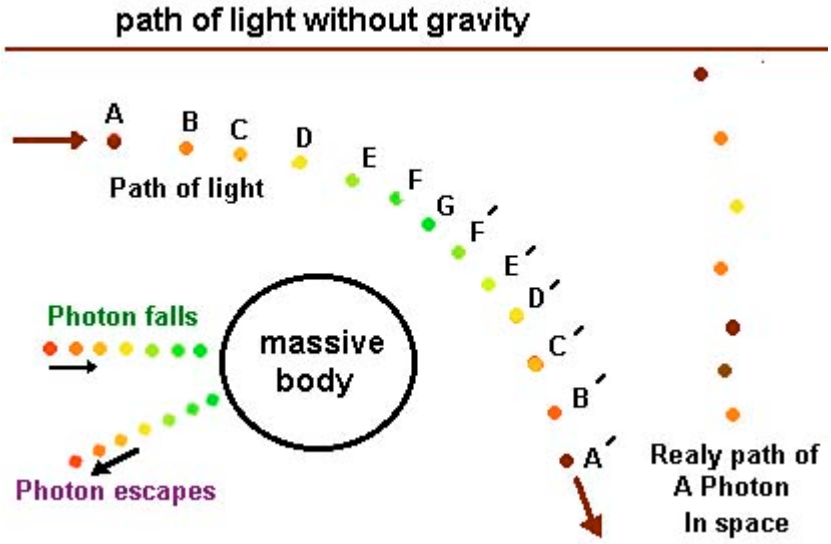

Figure 9

If movements in the space are without any gravitational effects, they move linearly with the speed of c (top of Figure 9). But space is full of gravity. So, photons' paths are like the right side of Figure 9.
Left side of Figure 9 shows that a photon is moving in a gravitational field of a massive body.
In point A, the photon has the speed of c, frequency of f and energy of E that reaches point A. Gravitational field acts on the photon, some gravitons enter the structure of the photon. Photons accelerate toward the massive body. Its frequency, energy and speed increase.
In point B, the photon has a frequency of f1, energy of E1 and speed of c1. During the time that photons are falling, the distance between the photon and body decreases, until it reaches the point G. In point G Frequency, speed and energy are maximum for that photon. When photon reaches point F', it is the same as point F, and so on. In point A' it

is the same as point A.
The behavior of photons and gravitational fields is the same as spring and objects. On the left side of Figure 9, when a photon is falling, it shifts to blue and the gravity force converts into energy.
When photon is escaping from a massive body it shifts to red and energy converts to gravity force.
Theory of CPH – the ultimate explanation of the universe at its most microscopic level, a theory that does not rely on any deeper explanation - would provide the firmest foundation on which to build our understanding of the world.

CPH bends space

We know the frequency of photon does change in gravitational field. When gravity force acts on a photon, the energy of the photon increases and its frequency increases too (or decreases). In red-shift work is negative (frequency decreases) and in blue-shift work is positive (frequency increases). When photon is leaving gravitational field, it shifts to red and when photon is falling it shifts to blue. When light is moving in space that there is no gravitational effect, the path of light is linear (figure 10).
Now suppose light is moving in gravitational field of a massive body. Gravity works on it. When distance between photon and massive body goes to short, light shifts to blue like photon is falling. But when distance between photon and massive body goes to long, light shifts to red like photon escapes (Figure 10).

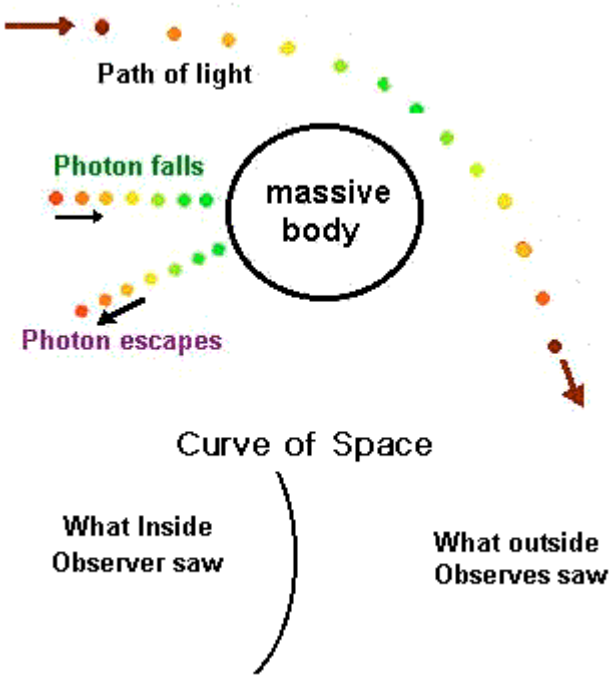

Figure 10

What the inside observer observes is the opposite of what the outside observer observes.

Zero Point Energy

Quantum energy is formed by a lot of CPH. Also, CPH (graviton) works on CPH and produces energy.
It happens when the density of the graviton is high. (Figure 11).
According to the size of a gamma photon and the number of CPH in it, we can calculate the density of CPH in the structure of the photon. The diameter of an electron is less than 10^ -18 m. A gamma photon (in pair production) produces an electron and a positron. Suppose the volume of a photon is 2 times bigger than the electron's volume.

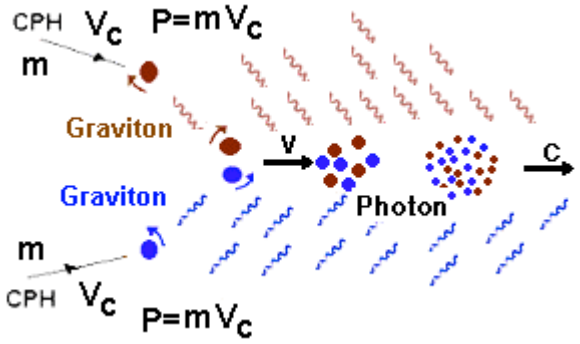

Figure 11

Suppose that the density of CPH in structure of photon is De(cph)=n per m^3,
Space is full of gravitons. Gravitons have interaction among each other. They absorb each other and convert to electromagnetic wave. When they convert to energy, that density of CPH reaches to
De(cph)=n per m^3.
So, for space we have;
Integral on volume of De(cph)=0 to De(cph)=n per m^3 on dDe(cph) = E , E is electromagnetic energy.

$$\int_{0}^{D(cph)=n \text{ per } m^3} dDe(cph) = E$$

Integration of gravitons is a projection to production electromagnetic energy.

In the other word, force and energy are equivalent. Force converts to energy and energy changes to force.

Designing by CPH

1- Conversion of Force-Energy-Mass

CPH absorb each other and produce energy (Figure 12). Energy converts to matter and anti-matter. Matter and anti-matter decay each other and energy appears.

Force < = = = > Energy < = = = > Mass

And Energy is the bridge between force and mass in projection:

Conversion Force-Energy-Mass

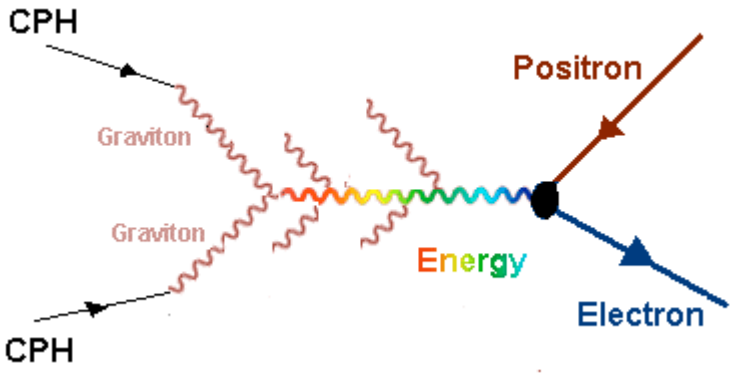

Figure 12

2- Limit of speed in universe and Spin

CPH moves with constant amount speed Vc. So, when its transfer speed decreases, then Spin of CPH increases (Figure 13). So that;

GradVc=0, in all inertial frames and any space.

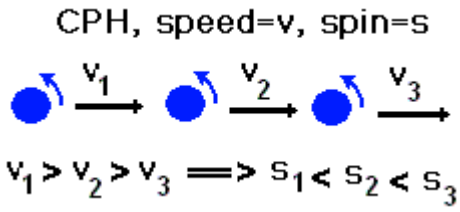

Figure 13

In other words, the Spin of CPH depends on the density of mass.
By the increase of the mass, spin increases too (Figure 14).

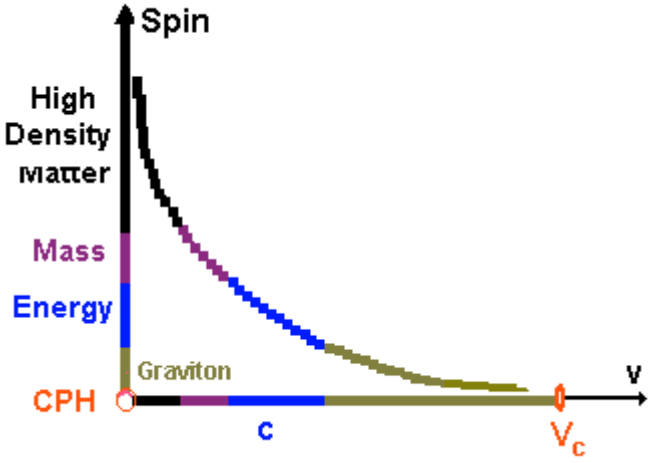

Figure 14

3- Spin of CPH and Time (Figure 15)
Time and spin have relationship between each other.
When spin decreases, time decreases too.
So, when transfer speed of a particle/object increases, time decreases too.
Also, according to CPH moves with constant amount of speed Vc, no time passes of CPH.
Time belongs to particles/objects that their amount speed does change.
Every thing is a clock and ticking of a clock is a function of external forces that applied on it.

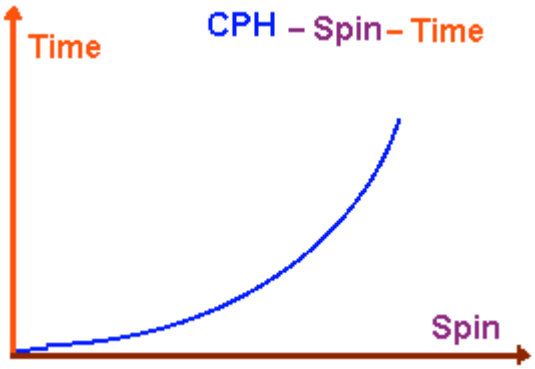

Figure 15

4- Linear Speed of CPH and External Force (Figure 16)
Transfer rate depends on external forces.
When external force tends to zero, speed tends to limit of speed in the universe Vc.

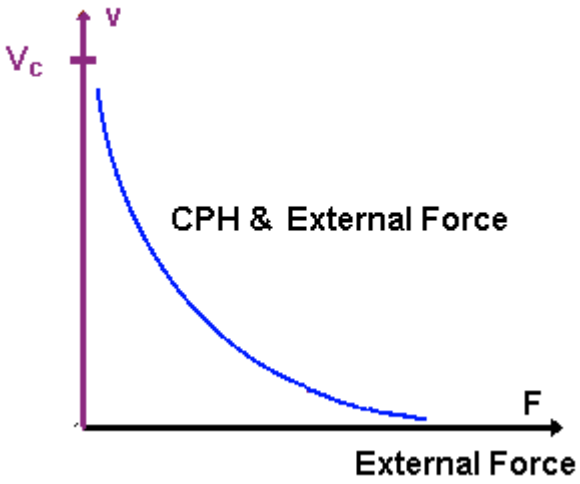

Figure 16

Information about Big Bang and Inside of Black Hole

According to the Big Bang theory, the universe began about 14 billion years ago as an unimaginably hot and dense fog of light and exotic particles. The Universe has since continuously expanded and cooled. The whole Universe is bathed in the afterglow light from the Big Bang. The light that is now reaching us has been traveling for about 14

billion years, thus allowing us a look back through time to see the early Universe.
A looking at data of universe maybe help us resolve some universe mysteries.

Age of universe
Universe is 13.7 billion years old
T=13.7x10^12 years =4.3x10^20 s

Radius of universe
R=1.6x10^26 m

Volume of universe
V=4/3 pi R^3
V=17.1x10^78m^3

Density of universe
D=10^-18 kg/m^3

Mass of universe
M=(density)x(volume), so;
M=DV=10^-18x17.1x10^78=17.1x10^60 kg

And when universe collapses?
For a moment forgets accelerating universe and expanding universe.

Now suppose universe is collapsing.
What will happen exactly?
Oh, in this case;
All evidence shows universe is contracting. Of the first, stars light shift to blue. Distance between bodies decrease. So, distance between earth and moon decreases. Distance between earth and sun decreases too. Moon connects to earth, then earth and other planets fall to sun.
The strength of gravity increases. Sun swallows everything around it. Sun and nearest star to it (Alpha Centauri) absorb each other.
Distance between bodies decrease speedy. The volume of universe decreases. Strongly of gravity increases and pressure of gravity increases too.
What happens for atoms?
The radiuses of atom's orbits do decrease. Then electrons fall into nuclear.
Density of matter increases so speedy. So, there is nuclear only.
Also, maybe the volume of nuclear decreases, but there is no experiment shows it. So, let continue by according the density of nuclear.
Density of nuclear is =2x10^17 kg/m^3.
So, suppose universe collapses completely.
Then by according mass of universe and density of nuclear we can calculate volume Vo of universe.

Vo=M/D=17.1x10^60 kg/2x10^17 kg/m^3=8.5x10^43 m^3

Then we can calculate Ro, radius of universe when it collapses completely. We will have;
Ro=2.7x10^14 m
It is an absolute black hole.

Absolute Black holes;
According to CPH Theory every thing is formed by CPH and nucleus is formed by CPH too. CPHs are moving with a spin near each other in structure of nucleus. CPH has Spin and transferring movement so its speed is constant and equals Vc. so that;

graVc=0 in all inertia frame and any space.

Hence, a CPH has a transferring speed of v and spin of s. When v goes to zero, s goes to maximum.
When the pressure of gravity increases so much, distances between CPHs decreases. No object, no light and no other electromagnetic waves and gravity effect are able escape of it (Figure 17).

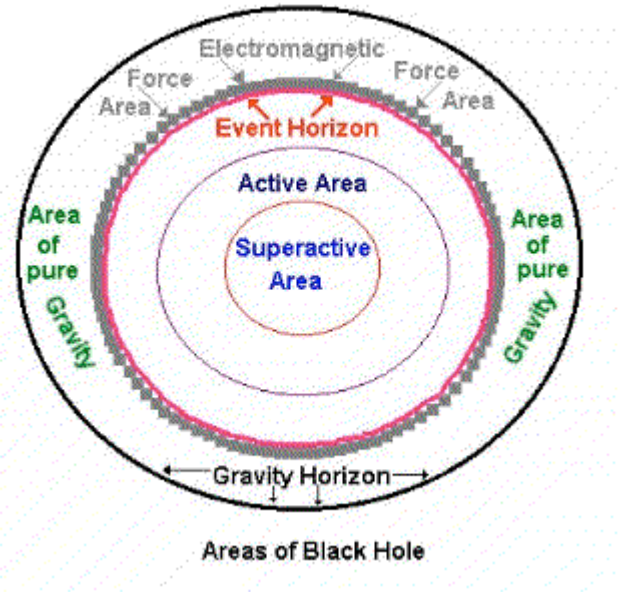

Figure 17

There is the straight velocity of CPH so much near to zero. Big Bang happened in a black hole as strong as this.
According to the following equation, we can result in a good conception about Big Bang.

$$\frac{\partial V_c}{\partial x}\frac{dx}{dt}+\frac{\partial V_c}{\partial y}\frac{dy}{dt}+\frac{\partial V_c}{\partial z}\frac{dz}{dt}=0$$

Suppose the strength of gravity force is so much that Vc of CPH changes to its spin on the surface of an absolute black hole.
Then CPHs don't obey the external forces and the absolute black hole explodes.

$$\frac{\partial V_c}{\partial x}\frac{dx}{dt} = \frac{\partial V_c}{\partial y}\frac{dy}{dt} = \frac{\partial V_c}{\partial z}\frac{dz}{dt} \longrightarrow 0$$ **Big Bang Equation**

Of the first time CPHs with velocity of Vc go further and gravity effect distributes to all sides.
According to Ro<<2.7x10^14 m and the speed of CPH, universe expand so much in a few seconds. But there isn't any matter or energy
There is CPHs only, which they move with speed of Vc.
But CPH has interaction with each other and they absorb each other too. CPH takes spin and the small quantum of energy starts to form.
There are CPHs with linear movement with speed of Vc, a lot CPH with Spin and transferring movement, and electromagnetic waves.
This item takes a great time.
Gradually energy forms easily and rapidly. Lots of big quantum energies appear.
Look at the center of the universe before it explodes.
The center of absolute black hole is like great bodies. The strongly of pressure goes to zero in its center. So, when the universe explodes, its center is under such a great pressure from all sides. See figure 18.

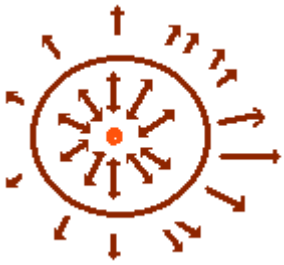

Figure 18

During the first second of universe's explosion, there are so much interactions in center of the universe.
So, lots of quantum of energy are formed there and convert to matter and anti matter (figure 19).
Then, gradually dust and bodies appear.
By the expansion of the universe, the size of the atoms increases too.
Actually this is the history of our observable universe.

String Theory or CPH Theory

The fundamental particles of the universe that physicists have identified - photon, electron, neutrino, quark and so on, are the letters of all matter. Just like their linguistic counterparts, they appear to have no further internal substructure. CPH theory proclaims otherwise. According to CPH theory, if we could examine these particles with greater precision beyond our present technological capacity, We would find that each is not point-like but, instead consists of a tiny particles containing a lot of sub-quanta field particle that is moving, oscillating, dancing that calls CPH.
CPH is moving continuously with constant amount of speed Vc so that:

$$\text{grad } Vc=0 \text{ in all inertial frames in an space}$$

They absorb each other in space. Then they take spin. When CPH has spin it is called graviton. Graviton is a particle that carried gravitational force. When density of gravitons increase in space, they combine with each other and convert into energy. In fact force and energy are equivalent. Any effort for finding a unified theory without considering the conversion of force and energy will have no success.
In the figure 19 we illustrate this essential idea of CPH theory by starting with an atom and repeatedly magnifying its structure to reveal its ingredients on ever-smaller scales. CPH theory adds the microscopic layer of an atom loop to the previously known progression from atoms through proton, neutron, quarks, electrons, and CPH. Then CPHs absorb each other, they take spin and then gravitons appear. When density of gravitons increase in space, they convert into energy. Photons have interaction with each other and convert to matter and anti-matter. And in the end atom and anti-atom appear.

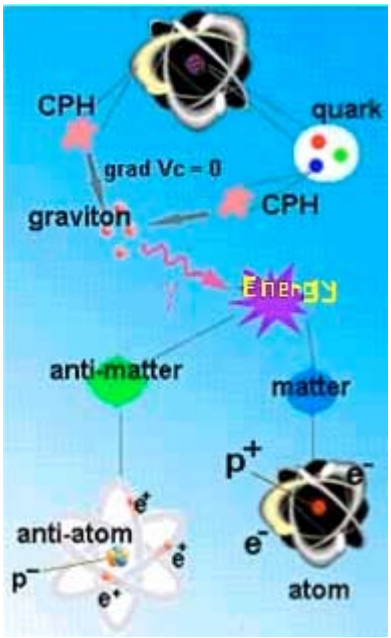

Figure 19

In Einstein's day, the strong and weak forces had not yet been discovered, but he found the existence of even two distinct forces, gravity and electromagnetism, deeply troubling. Einstein did not accept that nature is founded on such an extravagant design. This launched his 30-year voyage in search of the so-called *unified field theory* that he hoped would show that these two forces are really manifestations of one grand underlying principle.
CPH Theory propounded that force and energy are equivalent, so CPH theory may provide the answer. From one principle - that CPH moves with constant amount of speed Vc and gradVc=0 in all inertial frames in any space - CPH theory provides a single explanatory framework capable of encompassing all forces and all matter and anti-matter.

CPH theory proclaims for instance that the observed particle properties **-** that is, the different masses and other properties of both the fundamental particles. And the force particles associated with the four forces of nature (the strong and weak nuclear forces, electromagnetism, and gravity) **--** are a reflection of the various ways in which a CPH can moves in structure of matter or photon. Just as the photons or gravitons in empty space, patterns that light or gravity effect reach to earth of a very far star.
Theory of CPH - the ultimate explanation of the universe at its most microscopic level, a theory that does not With the rely on any deeper explanation - we would provide the firmest foundation on which to build our understanding of the world. CPH would mark a beginning, not an end.

Sincerely
Hossein Javadi