An another one
Abstract: This theory is written to explain the nature of space, time, matter and energy by the help of equations, this paper includes violation of some existing theories and introduction of some new concepts and explanation of some existing concepts which are puzzles in the science of current time (year 2020).

Introduction: This paper is purely based on practical reasoning to explain the logics used to make and derive the equations of the theory, therefore fits without any contradiction to the practicality. Through understanding the equations different theories with respect to the mathematical relations between the quantities of the equation has been drawn. The beauty of the theory is its clear logics used to derive the mathematical equations which conclude different results explained in the paper. This theory initially appears to be classical but the equations derived verify all experimental results without any contradiction.

About base paper: The base paper of this theory is special theory of relativity [1] and is written to remove the mistakes taken while understanding the nature of physics of considered system, this mistake concluded in the derivation of special theory of relativity leads contradictory statements for example we know according to the law of gravitation force of attraction

\[ F_g = G \frac{m_1 \cdot m_2}{r^2} \]  \hspace{1cm} ... (c1)

We know the relative mass of a particle moving with velocity \( v \) can be written as

\[ m = \frac{m_o}{\sqrt{1 - \frac{v^2}{c^2}}} \]

Therefore we can say relative mass of particle \( m_2 \) moving with velocity \( v \) can be written as

\[ m_2 = \frac{m_{2o}}{\sqrt{1 - \frac{v^2}{c^2}}} \]  \hspace{1cm} ... (c2)

From (c1) and (c2) we can write

\[ F_g = G \frac{m_1}{r^2} \cdot \frac{m_{2o}}{\sqrt{1 - \frac{v^2}{c^2}}} \]

When velocity of moving particle is equal to \( c \) then above equation becomes

\[ F_g = G \frac{m_1}{r^2} \cdot \frac{m_{2o}}{\sqrt{1 - \frac{c^2}{c^2}}} \]

\[ F_g = G \frac{m_1}{r^2} \cdot \frac{m_{2o}}{\sqrt{1 - 1}} \]

\[ F_g = G \frac{m_1}{r^2} \cdot \frac{m_{2o}}{\sqrt{0}} \]

\[ F_g = \infty \]  \hspace{1cm} ... (c3)

The logic behind considering this force as force required to move a particle is not mentioned due to which we can obtain contradictory statements for example, if mass of a moving particle increases with respect to velocity and it becomes infinite at the velocity \( c \) then force acting between a particle of infinite mass and mass of any other particle must become infinite and we know

\[ force = mass \cdot acceleration \]
As \((c^3)\) suggests for infinite value of force acting on a particle, the value of acceleration acting on a particle in above relation must be infinity, infinite acceleration means velocity obviously more than \(c\) which is contradiction as nothing can move with velocity more than \(c\) according to the special theory of relativity.

This mathematical contradiction cannot be resolved by any logic because of misconceptions of correct logics used to derive the special theory of relativity further there are no practically imaginable explanation of variation of mass with velocity or explanations of how mass converts into energy, this paper is written to remove such drawbacks with some other conclusions.

**Theory:** To understand the concept, consider two spherical particles \(P_1'\) and \(P_2'\) of radius \(r_1\) and \(r_2\) respectively, if particle \(P_2'\) is kept at fixed position and these particles obeys inverse square law of force and particle \(P_1'\) starts moving with acceleration \(a\) towards particle \(P_2'\) due to the force acting on the particle \(P_1'\). Now let an instant of time \(t_{in}\) at which the position of particle \(P_1'\) is at observer \(O_1\) and position of particle \(P_2'\) is at observer \(O_2\) and at these positions the distance and relative velocity between these particles be \(r\) and \(v\) respectively. If we consider two-dimensional coordinate geometry and consider that motion of particle \(P_1'\) is along positive direction of \(x\) axis then at considered instant the velocity \(v_{f_r}\) of field particle emitted by particle \(P_1'\) in the direction of observer \(O_2\) will be

\[
v_{f_r} = c + v
\]

Here \(v\) is the velocity of particle \(P_1'\) itself and \(c\) is the velocity with which field particle emitted by particle \(P_1'\) travels.

Explanation of (1): Here \(c + v\) doesn’t mean that velocity of field particle will exceed the limit of \(c\) with respect to its source, \(v\) is added to \(c\) due to relative motion between particles \(P_1'\) and \(P_2'\). For example at considered instant if particle \(P_1'\) is also kept at fixed position then field particle emitted by particle \(P_1'\) will move with velocity \(c\) and reach the particle \(P_2'\) in time:

\[
t_e = \frac{r}{c}
\]

While if particle \(P_2'\) move towards the particle \(P_1'\) with velocity \(v_2\) then due to the movement of particle \(P_2'\) towards the particle \(P_1'\), field particle emitted by particle \(P_2'\) will reach particle \(P_1'\) within shorter time period than \(t_e\), therefore \(c + v\) doesn’t mean that field particles emitted by particle \(P_1'\) will move with \(c + v\) velocity with respect to its source, \(v\) is added due to the relative velocity between particles. Now considering that relative velocity between particles cannot exceed than \(c\) without any practical explanation only on the behalf of conclusions of special theory of relativity doesn’t make the clarity of practical explanation while explanation of equation (1) is clear and can be practically understood.

Due to the same reason in fig-1, due to the motion of particle \(P_1'\) away from observer \(O_1\) after instant \(t_{in}\), velocity \(v_{f_r}\) of field particle emitted by particle \(P_1'\) in the direction of the observer \(O_1\), which will appear to observer \(O_1\)

\[
v_{f_o} = c - v
\]

Equation (1) and (2) can be comprehensively written as

\[
v_o = c + v \cos \theta
\]

Here \(\theta\) is the angle that line of connection between observer and emitted field particle by \(P_1'\) makes with the direction in which the particle \(P_1'\) is moving.
Therefore $c + v \cos \theta$ is the velocity of field particle appearing to an arbitrary observer at angle $\theta$, therefore the distance traveled by field particle emitted by $P_1'$ at angle $\theta$ in time $\Delta t$ will be equal to

$$d_1 = (c + v \cos \theta) \Delta t$$  \hspace{1cm} \cdots (3) \quad [\because \text{displacement} = \text{velocity} \cdot \text{time}]$$

This figure represents the considered system.

![Figure-1](image)

In figure-1, $\theta$ indicates that angle at which the emitted field particle by $P_1'$ at considered instant travels the same horizontal distance $d_2$, as particle $P_1'$ itself moved in time $\Delta t$, therefore distance traveled by particle $P_1'$ moving with velocity $v$ in time $\Delta t$ will be equal to

$$d_2 = v \cdot \Delta t$$  \hspace{1cm} \cdots (4)$$

Then by using Pythagoras theorem in fig-1, we can write in right angle triangle $\Delta ABC$

$$d_1^2 = d^2 + d_2^2$$  \hspace{1cm} \cdots (5)$$

Substituting the value of $d_1$ and $d_2$ from (3) and (4) in (5)

$$[(c + v \cos \theta) \Delta t]^2 = d^2 + [v \cdot \Delta t]^2$$

$$[\Delta t(c + v \cos \theta)]^2 - [\Delta t \cdot v]^2 = d^2$$

$$\Delta t^2[(c + v \cos \theta)^2 - (v)^2] = d^2$$

$$\Delta t^2 = \frac{d^2}{(c + v \cos \theta)^2 - (v)^2}$$

$$\Delta t = \frac{d}{\sqrt{(c + v \cos \theta)^2 - (v)^2}}$$

$$\Delta t = \frac{d}{c + v \cos \theta} \cdot \frac{1}{\sqrt{1 - \left(\frac{v}{c + v \cos \theta}\right)^2}}$$  \hspace{1cm} \cdots (6)$$

The time taken $\Delta t$ is dependent on the position of observer by $\theta$ therefore is time dilation appearing to an arbitrary observer due to the motion of the moving particle after instant $t_{in}$ at angle $\theta$ due to the velocity of the particle $P_1'$. 
It is time taken by field particle emitted by moving particle $P'_1$ to reach the observer. If observer and particle $P'_1$ have no relative motion then the increase or decrease in the time dilation appearing to the observer due to the motion of the particle $P'_1$ will be vanished so the value of time dilation thus obtained will be independent of velocity $v$ and can be called as actual time taken by the field particle to reach the observer. Let’s call this actual value of time dilation be $\Delta t_a$ and in (6) it can be obtained by substituting $v$ equal to zero, therefore

$$\Delta t_a = \frac{d}{c + 0} \cdot \frac{1}{\sqrt{1 - \left(\frac{0}{c + 0}\right)^2}}$$

$$\Delta t_a = \frac{d}{c} \cdot \frac{1}{\sqrt{1 - (0)^2}}$$

$$\Delta t_a = \frac{d}{c}$$

Therefore we can write

**Statement (1):** Time dilation $\Delta t$ becomes actual time $\Delta t_a$ at $v$ equal to zero

Now rearranging (6)

$$\Delta t = \frac{d}{c \left(1 + \frac{v \cos \theta}{c}\right)} \cdot \frac{1}{\sqrt{1 - \left(\frac{v}{c + v \cos \theta}\right)^2}}$$

$$\Delta t = \frac{d}{c} \cdot \frac{1}{\left(\frac{c + v \cos \theta}{c}\right)} \cdot \frac{1}{\sqrt{1 - \left(\frac{v}{c + v \cos \theta}\right)^2}}$$

$$\Delta t = \frac{d}{c} \cdot \frac{c}{c + v \cos \theta} \cdot \frac{1}{\sqrt{1 - \left(\frac{v}{c + v \cos \theta}\right)^2}}$$

From (7) and (8) we can write

$$\Delta t = \Delta t_a \cdot \frac{c}{(c + v \cos \theta)} \cdot \frac{1}{\sqrt{1 - \left(\frac{v}{c + v \cos \theta}\right)^2}}$$

Now let

$$\frac{c}{(c + v \cos \theta)} = \alpha$$

And
From (9), (10) and (11) we can write

$$\Delta t = \Delta t_u \cdot \alpha \cdot \lambda$$  \hspace{1cm} \ldots (12)$$

But as we have considered that $\theta$ indicates that angle at which the horizontal component of distance $d_1$ is equal to distance $d_2$, therefore we can write

$$d_1 \cos \theta = d_2$$

From (3), (4) and above equation we can write

$$((c + v \cos \theta) \cdot \Delta t) \cos \theta = v \cdot \Delta t$$

$$c + v \cos \theta = v$$  \hspace{1cm} \ldots (13)$$

$$\cos \theta = \frac{v}{(c + v \cos \theta)}$$

$$\theta = \cos^{-1}\left(\frac{v}{c + v \cos \theta}\right)$$

Here as $v$ increases or decreases there is a particular value of $\theta$ for each value of $v$, for which the emitted field particle by $P_1'$ at considered instant travels the same horizontal distance $d_2$, as particle $P_1'$ itself moved in time $\Delta t$ therefore the results we are obtaining are only valid for correct combination of $v$ and $\theta$ otherwise results will give incorrect values as incorrect combination $v$ and $\theta$ violates the definition of Pythagoras theorem, for example if we put in (13) $\theta$ equal to zero degrees then (14) becomes

$$((c + v \cos 0^\circ) \cdot \Delta t) \cos 0^\circ = v$$

$$((c + v) \cdot 1 = v)$$

$$c + v = v$$

Which is numerically incorrect for nonzero value of $c$ and zero value of $c$ is impractical value of $c$ in the considered phenomena. Further if we put in (13) $\theta$ equals to $180^\circ$ then (13) becomes

$$((c + v \cos 180^\circ) \cdot \cos 180^\circ = v$$

$$((c - v) \cdot (-1) = v)$$

$$v - c = v$$

$$-c = 0$$

$$c = 0$$

Which is again impractical value of the $c$ in the considered phenomena. Therefore for $\theta$ equal to $0^\circ$ and $180^\circ$ results obtained by equation (9) give incorrect values, therefore results of (9) are for special cases, the general form of equation (9) can be obtained by simply understanding the following facts
We know that velocity of field particle emitted by particle $P_1'$ towards observer $O_1$, for observer at $\theta$ equals to $180^\circ$ after instant $t_{in}$ is given by (1), which tells that if velocity of particle $P_1'$ becomes equal to $c$ then the velocity $v_{f_1}$ by which field particle emitted by particle $P_1'$ will go towards the observer $O_1$ will become

$$v_{f_1} = c - c$$

$$v_{f_1} = 0$$

It means at this velocity $(c)$ of particle $P_1'$, the field particle emitted by particle $P_1'$ will move with zero velocity towards observer $O_1$ at this angle $(180^\circ)$, means field particle emitted by particle $P_1'$ will never reach the observer $O_1$ or the observers at $\theta$ equal to $180^\circ$. Therefore we can write statement (2) as.

**Statement (2):** The time dilation which tells that how much time the field particle will take to reach the observer at $\theta$ equal to $180^\circ$ will become infinite if particle $P_1'$ moves with the velocity $c$.

In (12) if we consider only $\alpha$ function and eliminate $\lambda$ function then both of these two statements will be obeyed as proved below.

If we consider only $\alpha$ function then equation (12) can be written as

$$\Delta t = \Delta t_a \cdot \frac{c}{(c + v \cos \theta)}$$

From (10) it can be written as

$$\Delta t = \Delta t_a \cdot \alpha$$

... (14)

Now rearranging (14)

$$\frac{\Delta t}{\Delta t_a} = \alpha$$

... (15)

Equation (15) give the effect of dilation of field particle on term in numerator of the left hand side due to the velocity of particle $P_1'$ to the observer at angle $\theta$ with respect to actual value of that term and this equation will remain dimensionless if we write.

$$\frac{\Delta t}{\Delta t_a} \cdot \frac{u_1}{u_1} = \alpha$$

... (16)

The value of $u_1$ is unity because $\Delta t$ becomes $\Delta t_a$ at $v$ equal to zero and it is possible only when numerical value of $u_1$ will be equal to one. If the term $u_1$ has units of inverse of time and considered term like time or length then both numerator and denominator on the left hand side in (16) will gain the dimensions of considered term (time, length etc).

Now let

$$\frac{\Delta t}{\Delta t_a} \cdot \frac{u_1}{u_1} \cdot T_a = T_d$$

... (17)

Then from (16) and (17) we can write

$$\frac{T_d}{T_a} = \alpha$$

... (18)

Rearranging (18)
\[ T_d = T_a \cdot \alpha \quad \ldots (19) \]

Equation (19) tells the effect of dilation of field particle on the terms used in \( T_d \) and the value of \( T_d \) indicates the values of those terms which are varying in the same way as \( \Delta t \) varies means \( T_d \) indicate those terms whose values are increasing with increasing dilation of field particle to reach the observer and vice versa, for example if we consider appearing length of distance between particle \( P_1' \) and an arbitrary observer as considered term in the place of \( T_d \) and \( T_a \) in (19) then (19) can be written as

\[ l_{ap} = l_a \cdot \alpha \quad \ldots (20) \]

Therefore appearing length \( l_{ap} \) of distance between particle \( P_1' \) and observer as well as time dilation \( t_d \) with which field particle emitted by \( P_1' \) reaches the observer varies in same way as \( T_d \) varies and the graph of variation can be drawn as

Figure:-1

Figure:-1: The graph shown above represents the variation of \( T_d \) with variation in velocity \( v \) with respect to the observer and some of the results of the equation (1) are shown in the table given below:-

<table>
<thead>
<tr>
<th>( \nu )</th>
<th>( 0 )</th>
<th>0.5c</th>
<th>c</th>
</tr>
</thead>
<tbody>
<tr>
<td>( T_d / T_a )</td>
<td>( T_a )</td>
<td>(0.66) ( T_a )</td>
<td>(0.5) ( T_a )</td>
</tr>
</tbody>
</table>

Table:-1

As \( T_d \) also denotes time dilation when \( \theta \) is equal to \( 0^\circ \) and according to table:-1 \( \Delta t \) becomes actual time \( \Delta t_a \) at \( v \) equal to zero this result satisfies Statement (1) and if we consider the observer at \( \theta \) equal to \( 180^\circ \) then variation of terms that can be used in \( T_d \) with increasing velocity of particles \( P_1' \) are shown in table:-2 given below

<table>
<thead>
<tr>
<th>( \nu )</th>
<th>( 0 )</th>
<th>0.5c</th>
<th>c</th>
</tr>
</thead>
<tbody>
<tr>
<td>( T_d / T_a )</td>
<td>( T_a )</td>
<td>(2) ( T_a )</td>
<td>(\infty) ( T_a )</td>
</tr>
</tbody>
</table>

Table:-2

As last result of table:-2 show the time dilation of field particle to reach the observer at \( \theta \) equal to \( 180^\circ \) will become infinite if particle \( P_1' \) moves with the velocity \( c \) away from the observer \( O_1 \), therefore the condition of Statement (2) gets verified.
As the values of $\Delta t$, $T_d$ and $l_{ap}$ increases with increasing dilation of field particles but the magnitude of properties like mass and charge of particle $P_1'$ appearing to observer is the influence of reached field particles emitted by $P_1'$ to the observer but with increasing dilation field particles reaching the observer decreases therefore appearing magnitude $P_{ap}$ decreases with increasing dilation of field particles to reach the observer and vice versa, therefore the calculative value of $T_d$ with increasing velocity in (19) varies inversely with appearing magnitude $P_{ap}$ of considered property (charge, mass etc.) of particle $P_1'$.

Therefore

$$P_{ap} \propto (T_d)^{-1} \quad \ldots (21)$$

Similarly the actual magnitude $P_a$ of considered property varies inversely to the term $T_a$, therefore we can write

$$P_a \propto (T_a)^{-1} \quad \ldots (22)$$

For example for observer $O_2$, $\theta$ is equal to $0^\circ$ and for observer $O_1$, $\theta$ is equal to $180^\circ$, therefore the values which are appearing decreasing for observer $O_1$ with increasing velocity of particle $P_1'$ due to acceleration (acceleration is due to the inverse square law of force acting between the particles $P_1'$ and $P_2'$) will appear increasing for observer $O_2$ due to the variation of angle because for observer at angle $\theta$ in the range $90^\circ < \theta < 270^\circ$

The dilation of emitted field particle towards the observer in this range will increase with increasing velocity of particle $P_1'$ due to the motion of the particle $P_1'$ away from the observer in this range, therefore the value of appearing magnitude $P_{ap}$ of considered property of particle $P_1'$ will decrease than the value of actual magnitude $P_a$ of particle $P_1'$ and for observer at angle $\theta$ in the range $90^\circ > \theta > 270^\circ$

The dilation will decrease with increasing velocity of particle $P_1'$ as field particles emitted by particle $P_1'$ will reach the observer at angle $\theta$ in this range quickly due to motion of the particle $P_1'$ towards the observer therefore the appearing magnitude will also increase as the amount of field particles reaching the observer $O_2$ increases.

As the value of $\alpha$ varies directly proportional to calculative value $T_a$ in (19) and we know calculative value varies inversely to the appearing magnitude of properties of particle $P_1'$, therefore $\alpha$ is inversely proportional to the appearing magnitude $P_{ap}$ of considered property of particle $P_1'$ and these results can be obtained by taking inverse on both sides in (18), therefore we can write.

$$\left(\frac{T_d}{T_a}\right)^{-1} = (\alpha)^{-1} \quad \ldots (23)$$

Now dividing (21) by (22)

$$\frac{P_{ap}}{P_a} \propto \frac{(T_d)^{-1}}{(T_a)^{-1}}$$

Above equation can be rewritten as

$$\frac{P_{ap}}{P_a} = a_{ap} \frac{1}{(T_d/T_a)^{-1}} \quad \ldots (24)$$
Here the term \( a_{ap} \) is the term of proportionality and the term \( a_{ap} \) and its value is unity and has the units of considered term in \( T_d \) or \( T_a \) and considered property in term \( P_{ap} \) or \( P_a \) therefore in dimensional analysis the dimensions of \( P_{ap} \) and \( P_a \) in (24) will be the dimension of considered property in term \( P_{ap} \) or \( P_a \), for example if we consider \( l_d \) and \( l_a \) in place of \( T_d \) and \( T_a \) respectively and mass be the considered property in term \( P_{ap} \) and \( P_a \) then dimensional formula of physical quantity \( P_{ap} / P_a \) is given by

\[
\text{Dimensional formula} = \frac{[M^1L^1T^0][L^{-1}]}{[M^1L^1T^0][L^{-1}]} = [M^{-1}]
\]

Therefore SI units of \( \frac{P_{ap}}{P_a} = \frac{kg}{kg} \)

Therefore we may conclude that both \( P_{ap} \) and \( P_a \) will have the units of considered property.

From (23) and (24) we can write

\[
\frac{P_{ap}}{P_a} = \frac{a_{ap}}{a_{ap}} \cdot (\alpha)^{-1}
\]

\[
\frac{P_{ap}}{P_a} = (\alpha)^{-1}
\]

\[\text{… (25)} \quad \therefore \frac{a_{ap}}{a_{ap}} = 1\]

Let

\[
(\alpha)^{-1} = \alpha'
\]

\[\text{… (26)}\]

From (25) and (26) we can write

\[
\frac{P_{ap}}{P_a} = \alpha'
\]

\[\text{… (27)}\]

By rearranging (27) we can write

\[
P_{ap} = P_a \cdot \alpha'
\]

\[\text{… (28)}\]

Now from (10) and (26) we can write

\[
\alpha' = (\alpha)^{-1} = \left( \frac{c}{c + v\cos \theta} \right)^{-1} = \frac{c + v\cos \theta}{c}
\]

\[\text{… (29)}\]

Substituting the value of \( \alpha' \) from (29) in (28)

\[
P_{ap} = P_a \cdot \left( \frac{c + v\cos \theta}{c} \right)
\]

\[\text{… (30)}\]

Now in (30) for observer \( O_2 \) when \( v \) is equal to \( c \) then the value of \( P_{ap} \) will be equal to

\[
P_{ap} = P_a \cdot \left( \frac{c + c\cos 0^\circ}{c} \right)
\]
\[ P_{ap} = P_a \left( \frac{c + c}{c} \right) \]
\[ P_{ap} = P_a \left( \frac{2c}{c} \right) \]
\[ P_{ap} = P_a \cdot (2) \]
\[ P_{ap} = 2P_a \]  \hspace{1cm} \ldots (31)

Now in (30) for observer \( O_1 \) when \( v \) is equal to \( c \) then the value of \( P_{ap} \) is equal to
\[ P_{ap} = P_a \left( \frac{c + v \cos \theta}{c} \right) \]
\[ P_{ap} = P_a \left( \frac{c + c \cos 180^\circ}{c} \right) \]
\[ P_{ap} = P_a \left( \frac{c - c}{c} \right) \]
\[ P_{ap} = P_a \cdot (0) \]
\[ P_{ap} = 0 \]  \hspace{1cm} \ldots (32)

Therefore the graph of appearing magnitude of a property with respect to actual magnitude \( P_a \) with respect to the relation
\[ P_{ap} = P_a \cdot \frac{(c + v \cos \theta)}{c} \]

Can be drawn as

![Graph](image)
Figure:-2, The graph shown above represents the variation of $P_{ap}$ with variation in velocity $v$ and some of the results of the equation (12) are shown in the table given below:-

<table>
<thead>
<tr>
<th>$V$</th>
<th>0</th>
<th>$0.5c$</th>
<th>$c$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$P_{ap}/P_a$</td>
<td>$P_a$</td>
<td>$(1.5) P_a$</td>
<td>$(2) P_a$</td>
</tr>
</tbody>
</table>

Table:-3

The table:-3 shows the variation of parameters of equation (1) when $\theta$ is equal to $0^\circ$ but if we consider the observer at $\theta$ equal to $180^\circ$ then variation of terms that can be used in $P_{ap}$ with increasing velocity of particles $P_1'$ becomes as shown in table:-4 given below:-

<table>
<thead>
<tr>
<th>$V$</th>
<th>0</th>
<th>$0.5c$</th>
<th>$c$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$P_{ap}/P_a$</td>
<td>$P_a$</td>
<td>$(0.5) P_a$</td>
<td>$(0) P_a$</td>
</tr>
</tbody>
</table>

Table:-4

**Statement (3):** As particle $P_1'$ moves towards particle $P_2'$, therefore to obtain the velocity of field particle emitted by $P_1'$ towards the particle $P_2'$ or observer $O_2$, the velocity of particle $P_1'$ gets added to the velocity of field particle emitted by particle $P_1'$ in the direction of observer $O_1$ which is at $\theta$ equal to zero degrees, if the increase in the velocity of particle $P_1'$ is linear towards the observer $O_1$ then the velocity of field particle towards the observer $O_1$ increases linearly, with linear increase in the velocity of particle $P_1'$ towards the observer $O_1$, the appearing magnitude $P_{ap}$ of particle $P_1'$ will increase linearly, it can also be verified by graph in figure:-2 based on results of table:-3 and table:-4, therefore we may conclude that $\lambda$ function contributes to the dependency of velocity on $\theta$ and thus needed to be eliminated to obtain general form of equation (12), therefore general form of (9) includes only $\alpha$ function, in simple words of mathematics far from the above derivation and proofs the ratio of the velocity with which field particle emitted by a particle travels to the velocity of field particle through which it is moving towards the observer (due to the relative velocity between the particle and observer) tells the dilation with which field particle will reach the observer. It is classical approach but its correct implementation unifies classical and relativistic physics with complete accuracy and understandability.

**Note:** Time dilation just tells how slowly the field particle emitted by a particle will reach the observer means if time dilation is high, it means field particle emitted by a particle are reaching the observer slowly therefore processes occurring on the moving particle will appear to occur in slow motion but it doesn’t mean that speed of process occurring on moving particle will slow down, the dilation in the decay of muons produced in upper atmosphere is due to the distortion produced in the properties of muons due to the high energy applied in the production of muons just like when a bat shots a spherical rubber ball, the spherical shape of the ball gets distorted and greater the energy applied to shot the ball, greater is the distance that ball travels before achieving its original spherical shape, similar to the ball as soon a muon loses the distortion it decays as per its decay time.

From (31) and (32) we may conclude that when the value of $P_{ap}$ decreases for $O_1$, value of $P_{ap}$ increase for observer $O_2$ therefore decrease in the magnitude of considered property of particle $P_1'$ for one observer may result into increase in the magnitude of considered property of particle $P_1'$ for another observer and negative value of appearing magnitude $P_{ap}$ in graph of figure:-2 means field particle emitted by back phase of particle $P_1'$ with respect to observer $O_2$ will instead of moving towards observer $O_1$ will move away from observer $O_1$ due to the motion of particle $P_1'$ away from the observer $O_1$ with velocity more than $c$ and will reach observer $O_2$ after particle $P_1'$ reaches observer $O_2$ as field particles emitted in the direction of observer $O_1$, attained the direction of motion towards observer $O_2$ but it does not mean mass of a particle acquires such a property which has opposite properties of the mass, now to calculate the force acting on the moving particle we are taking following steps.

As particle $P_1'$ and $P_2'$ obeys inverse square law of force both particles will apply force on each other, due to the acting force both particles will move with respect to each other as a result of interaction of fields between the
particles, as we go away from the particle, fields emitted by a particle diverges as divergence increases as wave front of fields go away from the particle therefore to calculate the amount of fields at a point we need to divide total amount of fields in a wave front by the area of wave front therefore

\[ F \propto \frac{1}{4\pi r^2} \]  \hspace{1cm} (33)

As well as force will be directly proportional to amount of fields interacting therefore to the magnitudes of both the particles, therefore

\[ F \propto P_1 \]  \hspace{1cm} (34)
\[ F \propto P_2 \]  \hspace{1cm} (35)

From (33), (34) and (35) we can write

\[ F \propto \frac{1}{4\pi r^2} P_1 P_2 \]

\[ F = \frac{P_1 S P_2}{4\pi r^2} \]  \hspace{1cm} (36)

Here

\( P_1 \): Represents magnitude of considered property of particle \( P_1 \)' and in our system, if we consider in the system shown in fig-1. \( P_1 \) equal to actual magnitude of particle \( P_1 \)' which will vary as velocity of moving particle will vary with respect to the \( \alpha \) function then we can write

\[ P_1 = P_a \]

Therefore equation (36) can be written as

\[ F = \frac{P_a S P_2}{4\pi r^2} \]  \hspace{1cm} (37)

\( S \): It is the term of proportionality; its value indicates the strength of force between the particles. Its higher value strengthens the force between the interacting particles and vice versa, we know force acts more when more line of forces acts or interacts with each other, more lines of force means the space contain more number of field particles associated with each line of force (here the word “field particle” is used just for understanding this theory, like electromagnetic fields of light, the fields of gravitational force and electrostatic force can be considered as having dual nature(wave as well as particle nature), we know electrostatic force is stronger than gravitational force if we define a specific amount of wave as causing a constant amount of force in all fundamental forces and consider the affect of this specific amount of wave as one field particle then in a specified region stronger electrostatic force represents more number of field particles than weaker gravitational force in a specified region and consider this specific amount of wave as reason which forms space) whose increase makes space denser and vice versa, as \( S \) denotes strength of force and high force means more line of forces therefore we can say greater value of \( S \) makes space density higher and vice versa.

\( P_2 \): Represents magnitude of considered property of particle \( P_2 \)' .

As particle \( P_2 \)' is fixed if we let particle \( P_1 \)' under the effect of above force then for the force of attraction particle \( P_1 \)' will move towards particle \( P_2 \)' and for the force of repulsion particle \( P_1 \)' will move away from the particle \( P_2 \)' therefore if \( \theta_s \) represents the motion of particle \( P_1 \)' under the effect of force acting between the particles and its value is the angle between the linear line of connection between the centre of two particles from the point of center of particle \( P_1 \)' and the direction in which moving particle moves due to the force acting on the particle. We know two particles attract each other if they are oppositely propertied with respect to each other (for example electron and proton, north pole and south pole of magnets etc.) therefore in such cases one particle acquires negative sign with respect to the other. If we place negative sign of one of the particle with \( \cos \theta_s \) then it becomes \( -\cos \theta_s \) which can also be written as \( -1 \cos \theta_s \), while if two particles repel each other then \( \cos \theta_s \) remains unchanged after consuming the sign of the properties of particle
Therefore we can say if we don’t wants to assign sign with the magnitudes of the particle’s properties and wants to know about the type of force acting then for four situations which corresponds to the motion of moving particle along the linear line connecting the centers of particles $P_1'$ and $P_2'$ then value of $\theta_s$ can be assigned as with respect to the force acting as

**Case 1:** In cases particle $P_1'$ will move itself under effect of force of attraction between the particles we need to substitute $\theta_s$ equal to 0°.

**Case 2:** In cases particle $P_1'$ will move itself under effect of force of repulsion between the particles we need to substitute $\theta_s$ equal to 180°.

**Case 3:** In case we are applying force to move the particle $P_1'$ away from the particle $P_2'$ against the attractive force acting between the particles $P_1'$ and $P_2'$ then $\theta_s$ will be equal to 0°.

**Case 4:** In case we are applying force to move the particle $P_1'$ towards the particle $P_2'$ against the repulsive force acting between the particles $P_1'$ and $P_2'$ then $\theta_s$ will be equal to 180°.

Then the other form of the equation (37) which will represent situation of motion of particle $P_1'$ with respect to the type of force acting between the particles can be written as

$$F_s = \frac{P_s \cdot S \cdot P_s}{4\pi r^3} [-1] \cos \theta_s, \quad \text{... (38)}$$

Now as particles $P_1'$ will move with respect to particle $P_2'$ due to the acceleration caused by the force acting between these two particles, therefore with respect to the relation

$$\text{force} = \text{mass} \cdot \text{acceleration}$$

Here mass is magnitude of a property known as mass, if matter has $n$ numbers of properties then let the force due to the one of the property is equal to

$$F = P \cdot a, \quad \text{... (39)}$$

Here $P$ denotes magnitude of considered property.

If we consider in the system shown in fig-1

$$P = P_{ap}, \quad \text{... (40)}$$

Then from (39) and (40) we can write

$$F = P_{ap} \cdot a, \quad \text{... (41)}$$

Now substituting the value of $P_{ap}$ from (32) in (41)

$$F = 0 \cdot a$$

$$F = 0, \quad \text{... (42)}$$

We know if no force acts on a particle then no acceleration takes place in the motion of such particle therefore there is no further increase in the velocity of such particle therefore any force or activity occurring at $\theta$ equal to 180°, cannot move particle $P_1'$ with velocity more than the velocity by which field particles emitted by particle $P_1'$ move, therefore achieving velocity more than $c$ for a particle in the system of two particles exerting force on each other is not possible when two particles moving away from each other. Further from (31) we may conclude that with increasing velocity of particle $P_1'$ for observer at $\theta$ equal to 0°, the value of $P_{ap}$ increases therefore the value of force in (37) will increase, with increasing force the acceleration of particle on which force is acting increases continuously, here this particle is $P_1'$ therefore if particle $P_1'$ and $P_2'$ are separated by sufficient distance and $\theta$ is in the range

$$270° < \theta < 90°$$
Then continuous increase in acceleration may make the particle $P_1'$ to move with velocity more than $c$ after some time $t_f$, the value of $t_f$ can be calculated as follows

We know force of interaction between particles $P_1'$ and $P_2'$ are given by expression in equation (37). Now if we let at instant $t_{in}$ there was no relative motion between the particles then the value of $P_{ap}$ can be obtained by substituting value of velocity of particle $P_1'$ equal to zero in equation (30), therefore

$$P_{ap} = P_a \left( \frac{c + 0 \cos \theta}{c} \right)$$

$$P_{ap} = P_a \left( \frac{c}{c} \right)$$

$$P_{ap} = P_a \quad \cdots (43)$$

From equation (37), (38) and (43) we can write

$$F_s = \frac{P_a S P_2}{4\pi r^2} [-1] \cos \theta_s \quad \cdots (44)$$

This is the value of force acting on actual magnitude of particle $P_1'$ and represents the moment when particle $P_1'$ is neither moving towards particle $P_2'$ nor moving away from away from particle $P_2'$ and therefore can be considered as a moment after which moving motion of particle $P_1'$ starts.

As shown in the result of (42) with decreasing appearing magnitude $P_{ap}$ value of force acting on particle $P_1'$ decreases therefore force required $F_r$ to move a particle is directly proportional to the dilation with which field particle emitted by a particle reaches the source or the system which is applying force to move the particle $P_1'$, therefore $F_r$ will be in the direct proportion to the $\alpha$ function as $\alpha$ function represents the proportion of dilation with which field particle reaches the target, therefore value of force required can be written as

$$F_r = \frac{P_a S P_2}{4\pi r^2} [-1] \cos \theta_s \cdot \alpha \quad \cdots (45)$$

Substituting the value of $\alpha$ from (10) in above equation

$$F_r = \frac{P_a S P_2}{4\pi r^2} [-1] \cos \theta_s \cdot \frac{c}{(c + v \cos \theta)}$$

Multiplying both sides with $dr$

$$F_r \cdot dr = \frac{P_a S P_2}{4\pi r^2} [-1] \cos \theta_s \cdot \frac{c}{(c + v \cos \theta)} \cdot dr$$

Integrating both sides with respect to $r$ from limit $r_i$ to $r_f$ ($r_i$ and $r_f$ denotes initial and final distance away from the particle $P_2'$)
\[ F_r \int dr = \frac{P_a S P_2}{4 \pi} \left[ -1 \right] \cos \theta \int \frac{1}{r^2} \left( \frac{c}{c + v \cos \theta} \right) \cdot dr \]

\[ F_r \left[ r_f - r_i \right] = \frac{P_a S P_2}{4 \pi} \left[ -1 \right] \cos \theta \left( r^{-2+1} \right) \left( \frac{c}{c + v \cos \theta} \right) \]

\[ F_r \left[ r_f - r_i \right] = \frac{P_a S P_2}{4 \pi} \left[ -1 \right] \cos \theta \left( \frac{1}{r_f - r_i} \right) \left( \frac{c}{c + v \cos \theta} \right) \]

\[ F_r \left[ r_f - r_i \right] = \frac{P_a S P_2}{4 \pi} \left[ -1 \right] \cos \theta \left( \frac{1}{r_f - r_i} \right) \left( \frac{c}{c + v \cos \theta} \right) \]

\[ F_r \left[ r_f - r_i \right] = \frac{P_a S P_2}{4 \pi} \left[ -1 \right] \cos \theta \left( \frac{r_i - r_f}{r_f \cdot r_i} \right) \]

\[ \text{Let} \]

\[ r_i = k_i r \]

\[ r_f = k_f r \]

Here subscript \( f \) denotes final and subscript \( i \) denotes initial.

From (46), (47) and (48) we can write

\[ F_r \left[ r_f - r_i \right] = \frac{P_a S P_2}{4 \pi} \cos \theta \left( \frac{c}{c + v \cos \theta} \right) \left( \frac{r_i - r_f}{r_f \cdot r_i} \right) \]

\[ \text{Let above equation be} \]

\[ E_r = -\frac{P_a S P_2}{4 \pi r^2} \cos \theta \left( \frac{c}{c + v \cos \theta} \right) \left( \frac{r_i - r_f}{k_i \cdot k_f} \right) \]

\[ \text{In equation (49) if } r_f \text{ is greater than } r_i \text{ and } \theta \text{ is equal to zero degrees then for } \textbf{Case 1} \text{ in which } \theta \text{ is equal to } 0^\circ \text{, the value of } E_r \text{ in above equation becomes negative means if both particles attracts each other then we don’t need to supply energy for making the process to occur instead energy will be radiated by this process means every time a process occurs by itself, it occurs between the particles which has opposite signs, it explores a fact that mass is such a property which always acts attractive force has property of very intrusting kind of exception means if there are three bodies } A, B \text{ and } C \text{ then we can feel that} \]

1) The attraction of \( A \) to \( B \) proves \( A \) has opposite sign of \( B \), let \( A \) be positive and \( B \) be negative

2) The attraction of \( B \) to \( C \) proves \( B \) has opposite sign of \( C \) as \( B \) has already considered negative \( C \) must be positive.

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3). Finally attraction of $C$ to $A$ proves $C$ has opposite sign of $A$, but as such a case as we have considered $C$ must be positive then $A$ must be negative but in point (1) $A$ was positive

This exception cannot be explained if we consider mass as a property which has a sign with magnitude but it can be explained if we consider mass as affect of existence of something somewhere which is neutral but as a result of its existence it exerts its effect which gives rise to gravitational field which is neutral in nature but attracts everything as affect of its influence, independent of the sign on the property of other particle due to the presence of mass in another particle just like love of mother for her children which is independent of the fact that child is a girl or a boy and attracts the child, gravity can be seen as love which always attracts. The reason behind this explanation is given latter in the section “Attractive nature of zero space”

The graph shown below in figure:-3 shows the variation of energy required $E_r$ with respect to the observer to move particle $P_1'$ at certain velocity. Negative value of $E_r$ shows the process of motion of particle $P_1'$ towards source of attraction, it will occur itself and energy will be radiated during the process therefore energy required in such process becomes negative. The graph shown above in figure:-3 shows the variation of energy required $E_r$ with respect to the observer to move particle $P_1'$ at certain velocity. The motive of this graph is just to show the variation of $E_r$ at certain value of $\nu$ under the action of attractive and repulsive force therefore magnitude of $E_r$ is not shown just type of variation is shown

In the graph shown above, under the action of repulsive force when $\theta$ equal to 180° energy required $E_r$ becomes $\infty$ at the value of $-c$ (negative sign shows that particle is moving away from the source of repulsive force) which tells that if the relative velocity between the source that is exerting repulsive force and the moving particle on which repulsive force is acting becomes $c$ then moving particle becomes unable to feel the force acting on it and to achieve such situation action of repulsive force requires infinite energy to make a particle to reach the velocity of $c$ but if source that is exerting repulsive force on moving particle also moves with respect to the moving particle like propulsion systems of rockets such that the relative velocity between the both propulsion system and moving object due to propulsion remains less than $c$ then the appearing magnitude $P_{up}$ of the considered property of moving particle or object attains some positive non zero value therefore remains capable to feel the force of repulsion, due to this force acting on particle it keeps moving with certain value of acceleration therefore if energy is supplied for sufficient time period then the moving particle will cross the velocity of $c$. The action of attractive force can also make a particle to reach the velocity more than $c$ because with the increasing velocity magnitude of considered property of particle $P_1'$ increases therefore force acting on it increases with its increasing velocity and for certain value of $E_r$ there exists a time period $t_f$ at which the velocity of particle $P_1'$ will become $c$, its equation can be found as
From (45) and (50) we can write

\[ E_r = F_r \cdot \left[ \frac{r_f - r_i}{k_f \cdot k_i} \right] \]

We know acceleration can also be written as

\[ \frac{v_f - v_i}{t_f - t_i} = a \]

If initial time \( t_i \) and initial velocity \( v_i \) are equal to zero and wants to calculate acceleration required \( a_r \) then above expression becomes

\[ \frac{v_f - 0}{t_f - 0} = a_r \]

If due to the acceleration final velocity \( v_f \) becomes \( c \) at \( t_f \) then above expression becomes

\[ \frac{c}{t_f} = a_r \]

After rearranging above equation

\[ \frac{c}{a_r} = t_f \]

\[ \frac{c}{t_f} = a_r \]

... (51)

If \( a_r \) represents acceleration required for providing required force \( F_r \) to particle \( P_1 \) then equation (39) can be written as

\[ F_r = P_a \cdot a_r \]

Rearranging above equation

\[ a_r = \frac{F_r}{P_a} \]

... (52)

From (51) and (52) we can write

\[ \frac{c}{t_f} = \frac{F_r}{P_a} \]

\[ t_f = \frac{c \cdot P_a}{F_r} \]

... (53)

Comparing (49) and (50) gives

\[ F_r[r_f - r_i] = E_r \]
\[ \frac{[r_f - r_i]}{E_r} = \frac{1}{F_r} \] ... (54)

From (53) and (54) we can write

\[ t_f = \frac{c \cdot P_a \cdot [r_f - r_i]}{E_r} \] ... (55)

To obtain the relation when \( r_i \) is greater than \( r_f \) we need to multiply both the numerator and denominator in the above equation by minus one, therefore equation (55) becomes

\[ t_f = \frac{c \cdot P_a \cdot [r_i - r_f]}{-E_r} \]

In this equation the value of \( t_f \) tells time period time at which the velocity of particle \( P_1' \) will become \( c \) but this equation is valid on those particles which are separated by sufficiently large distance such that before achieving the time period \( t_f \) no collision should occur between the particles and motion between the particles should be suitable to achieve the condition (suitable condition means before achieving \( t_f \) the considered particles should not bypass each other), after passing the period \( t_f \) velocity of particle \( P_1' \) will keep increasing than \( c \) till collision between the particles occur.

The graph shown below represents the variation of \( t_f \) with the variation in \(-E_r\) due to the velocity \( v \). The motive of this graph is just to show the variation of \( E_r \) with \( t_f \) therefore magnitude of quantities is not shown just type of variation is shown

Now from (41) and (43) we can write

\[ F = P_a \cdot a \] ... (56)

From (43) and (56) we can write

\[ a = \frac{S P_a}{4 \pi r^2} [-1] \cos \theta_s \] ... (57)

Now substituting the value of \( P_{ap} \) and \( a \) from (28) and (57) in (41)
\[ F = P_a \cdot \alpha' \cdot \frac{S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \]

Rearranging above equation and multiplying both sides by \(dr\).

\[ F \cdot dr = \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \alpha' \cdot dr \]

Substituting the value of \(\alpha'\) from (10) in (58)

\[ F \cdot dr = \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(\frac{c + v \cos \theta}{c}\right) \cdot dr \]

Integrating both sides with respect to \(r\) from limit \(r_i\) to limit \(r_f\)

\[ F \int_{r_i}^{r_f} dr = \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(\frac{c + v \cos \theta}{c}\right) \cdot dr \]

\[ F \left| \begin{array}{c} r_f \\ - \\ r_i \end{array} \right. = \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(1 + \frac{v}{c} \cos \theta \right) \cdot dr \]

\[ E = \int_{r_i}^{r_f} \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(1 + \frac{v}{c} \cos \theta \right) \cdot dr \]

\[ \ldots (59) \]

Now consider a system with some assumptions, suppose that radius \(r_2\) of particle \(P_2'\) is very greater than the radius \(r_1\) of particle \(P_1'\).

\[ r_2 \gg r_1 \]

Now make a tunnel in particles \(P_2'\) around its diameter such that angle \(\theta_s\) between motion of particle \(P_1'\) and line connecting the centre of both the particles remains either equal to \(0^\circ\) or \(180^\circ\).

Let \(t_e\) is equal to the radius of the tunnel. Now assuming that \(t_e\) is enough smaller than \(r_2\), such that change in the magnitude of property of particle \(P_2'\) (as a result of removing the material of particle \(P_2'\) to form tunnel) is negligible, thus now we are neglecting this change in the further calculation and assuming that \(t_e\) is sufficiently greater than \(r_1\), so that particle \(P_1'\) could easily move through the tunnel.

Therefore (60) can be rewritten as

\[ E = \int_{r_i}^{r_f} \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(1 + \frac{v}{c} \cos \theta \right) \cdot dr + \int_{r_2}^{0} \frac{P_a S P_2}{4\pi r^2} \cdot [-1] \cos \theta_s \cdot \left(1 + \frac{v}{c} \cos \theta \right) \cdot dr \]

\[ \Rightarrow E = E_1 + E_2 \]

If we consider the initiation of this process from the surface of particle \(P_2'\) then value of \(E_1\) becomes zero therefore we will use just \(E_2\) and consider the initial and final distance between the particle \(P_1'\) and \(P_2'\) be \(r_2\) and zero respectively.
\[ E_2 = \int_{r_1}^{r_2} \frac{P_a S P_2}{4\pi r^2} \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] \, dr \]

In the above equation if two particles attract each other, then above equation tells the energy we can get during the motion of particle \( P_1 \) with respect to particle \( P_2 \). Since when particle \( P_1 \) will move through the tunnel made in particle \( P_2 \), value of acceleration acting on particle \( P_1 \) by \( P_2 \) will vary with respect to the displacement of particle \( P_1 \) from surface to center of particle \( P_2 \) and it can be seen as follows

If we compare (36) by (39) and consider the value of acceleration acting on particle \( P_1 \) be

\[ a = \frac{S P_2}{4\pi r_2} \]

Then value of acceleration acting on particle \( P_1 \) after removing the material to form tunnel in particle \( P_2 \) becomes \( a_2 \) from \( a \) then value of \( a_2 \) can be written as

\[ a_2 = \frac{S}{4\pi} \left( \frac{P_2 - P_1}{(r_2)^2} \right) \]

We know

\[ \text{mass} = \text{density} \cdot \text{volume} \]

We can say for a particle

\[ \text{magnitude of property} = \text{density of property} \cdot \text{volume of particle} \]

Let \( \rho_2 \) be the density of considered property of particle \( P_2 \).

Therefore

\[ P_2 = \text{volume of particle } P_2 \cdot \text{density of considered property of particle } P_2 \]

Therefore

\[ P_2 = \frac{4}{3} \pi r_2^3 \cdot \rho_2 \]

Substituting the value of \( P_2 \) from (62) in (61)

\[ a_2 = \frac{S}{4\pi} \left( \frac{4 \cdot \pi \cdot r_2^3 \cdot \rho_2 - P_1}{(r_2)^2} \right) \]

\[ a_2 = \frac{S}{4\pi} \left( \frac{4 \cdot \pi \cdot r_2^3 \cdot \rho_2 - \frac{P_1}{4 \cdot \pi \cdot r_2^3}}{(r_2)^2} \right) \]

\[ a_2 = \frac{S}{4\pi} \left( \frac{\rho_2 - \frac{P_1}{4 \cdot \pi \cdot r_2^3}}{(r_2)^2} \right) \]

We know particle \( P_1 \) at depth \( t_d \) will experience force only due to the portion of particle \( P_2 \) up to radius \( r_i \)

\[ r_i = (r_2 - t_d) \]
The force by outer spherical portion of particle \( P_2' \) whose thickness is \( t_d \), will be canceled and will not exert any force on particle \( P_1' \) at depth \( t_d \), therefore value of acceleration at depth \( t_d \) across the tunnel will be equal to

\[
a_2 = S \cdot \left( \frac{r_2^2}{3} - \frac{P_2}{4 \cdot \pi \cdot (r_2 - t_d)^3} \right)
\]

\[
a_2 = S \cdot (r_2 - t_d) \left( \frac{\rho_2}{3} - \frac{P_1}{4 \cdot \pi \cdot (r_2 - t_d)^3} \right)
\]

... (63)

At

\[
t_d = r_2
\]

Equation (63) becomes

\[
a_2 = S \cdot (r_2 - r_2') \left( \frac{\rho_2}{3} - \frac{P_1}{4 \cdot \pi \cdot (r_2 - r_2')^3} \right)
\]

\[
a_2 = S \cdot (0) \left( \frac{\rho_2}{3} - \frac{P_1}{4 \cdot \pi \cdot (0)^3} \right)
\]

\[
a_2 = S \cdot (0) \left( \frac{\rho_2}{3} - \infty \right)
\]

\[
a_2 = S \cdot (0)(-\infty)
\]

\[
a_2 = 0
\]

As depth increases than radius in (63), value of acceleration becomes negative which will cause deceleration, therefore kinetic energy of particle \( P_1' \) starts decreasing, as there is no friction acting to the motion of the particle \( P_1' \) due to sufficient gap between the particle \( P_1' \) and \( P_2' \) therefore it will reach the other end of the tunnel by virtue of its kinetic energy and at this end kinetic energy of particle \( P_1' \) will become zero, again particle \( P_1' \) will move towards the centre of particle \( P_2 \) (as at this end acceleration will again act on particle \( P_1' \) by \( P_2' \)) and again energy equal to \( E_2 \) will be radiated to the surrounding. The event GW150914 and photoelectric effect shows that mass and net charge on particle \( P_1' \) and \( P_2' \) during the process when two attracting particles become closer to each other will produce gravitational waves and electromagnetic waves respectively, therefore we may conclude strength of force acting between the particles can be used to gain energy from the system of particles without any input to the system of particles.

It appears simple and questionable that why value of \( S \) can be used for generating energy as per current theories of science, to understand this we need to reconsider (60) and apply some hypotheses to understand the nature of the quantities in equation (60) which will tell us the reason behind this

Using equation (60) when particle does not pass through the another particle then the energy given by the system of particles or energy gained \( E_g \) by the surrounding due to the force acting between the particles can be written as
\[
E_g = \int_{r_i}^{r_f} \frac{P_a S P_2}{4\pi r^2} \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] dr
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] dr
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] dr
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] dr
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] \left[ \frac{1}{r_f - r_i} \right]
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left[ -1 \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \right] \left[ \frac{1}{r_f - r_i} \right]
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{r_i r_f} \right]
\]

From (47), (48) and above equation we can write

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i r \cdot k_f r} \right]
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i r \cdot k_f r} \right]
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i r \cdot k_f r} \right]
\]

\[
E_g = \frac{P_a S P_2}{4\pi} \cos \theta_s \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i r \cdot k_f r} \right]
\]

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\[ E_g = \frac{P_a S P_2}{4\pi r^2} \cos \theta \left( 1 + \frac{v}{c} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i \cdot k_f} \right] \]

\[ E_g = \frac{P_a S P_2}{4\pi r^2} \cos \theta \left( 1 + \frac{x}{ct} \cos \theta \right) \left[ \frac{r_i - r_f}{k_i \cdot k_f} \right] \quad \left[ \therefore v = \frac{x}{t} \right] \]

Above equation can also be written as

\[ E_g = \frac{P_a S P_2}{4\pi r^2} \left( 1 + \frac{x}{ct} \cos \theta \right) \left[ \frac{(r_i - r_f) \cos \theta}{k_i \cdot k_f} \right] \]  \quad \ldots (64)

Now we will consider above equation as equation of facts included in the above equation

Here

\[ E_g : \text{Energy gained by the surrounding.} \]

\[ x : \text{Represents the displacement taken by particle } P'_1. \]

\[ c : \text{Tells the velocity with which field particle travels.} \]

\[ t : \text{Represents time period from now we will call it } p_t. \]

\[ \theta : \text{Represents the angle at which the considered field particle emitted by particle } P'_1 \text{ travels.} \]

For convenience to understand the theory we are representing two aspects of time:

1. One is period of time ( \( p_t \) )
2. Second is flow of time ( \( f_t \) )

The first one becomes longer when there the force that resists the flow of occurrence of a process increases whereas when the force that resists the flow of occurrence of a process decreases, means as flow of time increases, the period of time of some process in a specified region decreases and vice versa, therefore we can say

\[ \frac{1}{p_t} \propto f_t \]

\[ \frac{1}{p_t} = k_f f_t \]  \quad \ldots (65)

Here  \( k_f \) is constant term of proportionality

\textbf{Note: } \( f_t \) has unit of inverse of time

From (64) and (65) we can write

\[ E_g = \frac{P_a S P_2}{4\pi r^2} \left( 1 + \frac{x k_i f_i}{c} \cos \theta \right) \left[ \frac{(r_i - r_f) \cos \theta}{k_i \cdot k_f} \right] \]

\[ E_g = P_a \cdot a \left( 1 + \frac{x k_i f_i}{c} \cos \theta \right) \left[ \frac{(r_i - r_f) \cos \theta}{k_i \cdot k_f} \right] \quad \ldots (66) \left[ \therefore a = \frac{1}{4\pi \varepsilon_0 r^2} \right] \]
\[ \frac{E_g}{P_a \cdot a} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] = \frac{xk_i f_i}{c} \cos \theta + 1 \]

\[ \frac{E_g}{P_a \cdot a} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 = \frac{xk_i f_i}{c} \cos \theta \]

\[ \frac{E_g}{P_a \cdot a} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 \left[ \frac{c}{x \cos \theta} = k_i f_i \right] \]

**Interaction between space, energy and flow of time:** If we consider equation (67) then in this equation we can see that flow of time is directly proportional to \( E_g \) means if we provide energy to a region then flow of time increases in that region and in (66) \( E_g \) is also directly proportional to the difference \( r_i - r_f \) means if we provide energy to the system of two particles which attracts each other, then separation between the two particles will increase means with providing energy to a region separation between the particles and flow of time in the separated region both increases it is because we know as we go away from a particle the gravitational or electrostatic field emitted by the particle diverges with the distance, if separation between the two particles increases then the divergence of these fields at the centre of separation increases as after separation the centre between the particles becomes away from both the particles therefore divergence of field increases in such region therefore number of field particle of space per unit volume decreases in such region, consequently space density will decrease in this region and as \( E_g \) is also directly proportional to the flow of time in (67) it means according to the explanation given as we provide energy to a region then space density decreases it means number of interacting field particles decreases in such region therefore force of interaction and thus acceleration acting in such region decreases in equation (67) and vice versa means when reverse of this process occurs, the region where flow of time was increased due to the divergence of space due to the energy gained, the tendency to radiate back energy by that region becomes high means the region where flow of time is infinite that region has infinite tendency to radiate energy and region of infinite density cannot radiate energy.

**Reason for continuous existence of properties of matter and creation of energy:** At the centre of particle according to the equation (63) if there is no tunnel then value of value of \( P_i \) will become zero and thus force acting by particle itself remains zero due to zero value of acceleration at the center of particle and becomes ineffective due to cancelation of force by opposite side of any considered part from the center of particle and from (56) and (67) we can also write

\[ \frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 \left[ \frac{c}{x \cos \theta} = k_i f_i \right] \]

As force \( F \) varies inversely with flow of time in \( k_i f_i \) in (83), it tells that in the absence of force there is no friction to the flow of time which leads its infinite value therefore every process runs with infinite speed it also means that ease for process to occur is infinite at the centre of particle therefore ease for creation (which is also one among all the processes) is infinite at the centre of a particle and it decreases as retardation in flow of time increases as a result of increase in force which occurs as we go away from centre to the surface of a particle, therefore strength of each part of particle to radiate fields with increasing distance falls down (as in (68) value of \( S \) in the expression of force in (57) is directly proportional to the \( k_i f_i \) ) which gives resultant magnitude to the properties (charge, mass etc.) of particle but at the centre flow of time is infinite and as explained in the above section and according to equation (68) a region which has infinite flow of time has infinite tendency to give \( E_g \) therefore if we consider the centre of a spherical particle as origin then the region where the value of space coordinates \( x, y \) and \( z \) becomes zero (as per three-dimensional coordinate system) and call this central point of particle as zero space then according to the physics of centre of particle (zero space) the continuous infinite tendency to give \( E_g \) and due to infinite ease for creation at the centre of particle, creation occurs continuously however due to the infinite flow of time any period of time passes out in infinitesimal small period of time as flow of time varies inversely with the period of time in (65) therefore centre of a particle becomes older with infinite speed but due to the continuous infinite tendency to give \( E_g \) and infinite ease for creation at the centre of particle, creation occurs continuously and energy in the form of fields are radiated.
continuously therefore a particle never loses its property with running time, the energy to sustain the property (influencing in the form of force) of a particle comes from zero space.

**Reason for exotically heavy particles created during annihilation:** The nature of the particle decides to give $E_g$ its corresponding field, it is because if we consider a single particle which is electro statically neutral then whole of the fields generated acquires the property of neutrality, these fields which is effect of neutrality of a particle results into the fields which is neutral for everything, but we know according to the quark model the neutron which is electro statically neutral is formed by three quarks, each are electro statically charged but in $\beta^-$-decay when a down quark transforms into an up quark with emitting an electron the same material of down quark which was initially emitting electro statically negative fields after $\beta^-$-decay stars emitting electro statically positive fields means the fields generated due to creation at zero space tries to attains the properties, which a particle attains after transformation (due to the neutral nature of energy created by zero space, it can easily transform into the properties of the particle). These neutral fields which are neutral and can transform as per property of the particle are the reason of gravitational force, in other words are named as gravitational field, therefore it is gravitational field or field of neutrality which transforms into other fields due to the properties acquired by a particle. Due to the same reason in a singular electro statically neutral particle the whole of the emitted fields by a particle acquires the properties of neutral fields, therefore in high energy particle colliders after annihilation of positron and electron the particle created are exotically heavy as initially before annihilation, the fields created by the particle electron had the affect of negative charge and the fields of particle positron had the affect of positive charge but after annihilation, the particle generated acquires the property of neutrality therefore whole of the fields generated by each part of the particle attains neutral nature therefore mass of the particle generated becomes exotically more than the independent net mass of electron and positron and before the annihilation and existence of mass in each particle suggests that a particle acquiring some property other than neutrality or mass, the property acquired by the particle does not vanishes the effect of neutrality completely, it is because as the force exerted by a particle is maximum at the surface of a particle and as we go towards the centre of a particle, value of force exerted by the property other than neutrality attained by a particle decreases from surface to the center of the particle, as force $F$ attained by a particle is inversely proportional to the $k f$ ins (68) which is higher near the centre of particle therefore we can say increase in the flow of time resists the change in gravitational field or neutral fields emitted by a particle therefore $E_g$ which gives the matter its corresponding fields with respect to the type of particle or with respect to the nature of the particle does not transforms completely into the property other than neutrality, acquired by the particle, therefore a particle always has certain value of mass and due to the infinite and continuous creation of energy due to the physics of zero space, energy in the form of fields are radiated continuously therefore a particle never loses its property with running time. These fields are the forms of energy, therefore transmits with the same velocity as the speed of light which is another form of energy and by using these fields a suitably constructed machine can convert these fields of energy into other fields and forms of energy. Moreover the systems of every orbiting electron around the nucleus or orbiting planet around a star are itself can be seen as machines that works on this created energy.

**Interesting fact:** According to the explanation given above as soon as gravitational force of Black hole becomes more than nuclear forces in some region and starts merging the particles of atoms in Black hole to form a kind of singular neutral particle then all fundamental forces turns to gravitational force thus increases the mass of Black hole extensively.

**Note:** As zero space denotes zero value of radius means empty space which can not contain matter therefore infinite value to the magnitude of a property is not achieved by a particle even though it has infinite tendency for creation.

Proof: Let say magnitude of considered property of a particular part of the particle be $P_p$ and volume of that part be $V_p$ and magnitude of considered property of a particular part of the particle will be directly proportional to the tendency of that part of the particle to radiate fields which is directly proportional to the flow of time $f_t$, as well as volume $V_p$ of that part of the particle, therefore

$$P_p \propto f_t \quad \ldots (69)$$

$$P_p \propto V_p \quad \ldots (70)$$

From (69) and (70) we can write

$$P_p \propto f_t \cdot V_p$$

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\[ P_p = k_p f_1 \cdot V_p \] \hspace{1cm} \text{... (71)}

Here \( k_p \) is the constant term of proportionality, it has suitable dimensions (dimension of considered property of particle and inverse of dimensions of volume and inverse of dimensions of flow of time) to acquire the dimension of property \( P \) and as at zero space, \( f_1 \) has infinite value and volume \( V_p \) will become zero (as at zero space value of \( x, y \) and \( z \) coordinates becomes zero) thus value of \( P_p \) at zero space in (71) becomes

\[ P_p = k_p(\infty) \cdot 0 = 0 \]

Therefore as we go towards the central part of the particle however tendency to radiate fields increase but volume, radiating field decreases with decrease in radius of considered particle and at centre which has infinite tendency to radiate field does not contribute to the increase in the magnitude of property of particle because such region have zero value of volume.

This theory explains the reason for mass defect as follows: We know at the centre of particle acceleration becomes zero and due to infinite tendency for creation has infinite tendency to give \( E_g \), these are the characteristic of zero space and as flow of time decreases, the tendency to give fields or \( E_g \) decreases, which occurs when we go away from the center of the particle therefore the strength of each part of particle to radiate fields with increasing distance from the center to the surface falls down which gives resultant impactful magnitude to the properties of particle. However magnitude keeps increasing with increase in the radius of particle due to having certain tendency for creation just tendency to radiate fields fall down as we go away from the centre of the particle due to decreasing tendency for creation from center to surface of particle, therefore we may conclude that strength of field emitted to volume ratio is higher for smaller particles as compared to larger particles (it infers that strongest nature of nuclear forces must be due to the small size of particles through which nuclear forces are associated) and as particle size increase strength of field emitted to volume ratio of associated particle falls down. Further it suggests that if we divide a single particle into two new particles then the surface of new particles obtained will be closer to their center due to their smaller size as compared to their parent particle therefore flow of time will be higher at their surface then the surface of parent particle therefore due to high tendency for creation at the surface of child particles, the sum of flux obtained from child particles will be more than the single parent particle, it results into increase in the magnitude of property but not matter, matter remains same but after partition magnitude increases therefore we may conclude that if two particles are divided into two new particles then the sum of the magnitude of child particles becomes more and vice versa.

We will now include the concept of binding energy to illustrate the affect of energy on magnitude of a particle. We know for those nuclear reactions (nuclear fission and nuclear fusion) in which energy is released by the nuclear reaction, only decrease in the mass of nucleus occur because a nucleus can be modeled as a cluster of tightly packed spheres, where each sphere is a nucleon, if we consider nuclear fission then in such reaction energy is released when a heavy nucleus splits or fissions into two lighter nuclei and energy is released in fission because the nucleons in each product nucleus becomes more tightly bound to one another than were in the original nucleus by accompanying more stable structure, it decreases the separation between the nucleons, as separation decreases, the space density between the particles increases (as particles becomes closer to each other) and as explained in the section “Interaction between space, energy and flow of time” the increase in space density is accompanied by radiating energy, the enormous amount of energy gained in such reaction is due to the strong nature of nuclear forces (mathematically for nuclear force the value of strength \( S \) of force is very high therefore space density is very high within the range of nuclear forces and for greater value of \( S \) value of acceleration in (57) or force becomes very high therefore according to (68) energy gained in such reactions becomes enormous), with increase in space density energy is radiated to the surrounding in the form of radiations but increase in the space density also decreases the flow of time in the region of nucleus therefore tendency creation which causes to radiate fields falls down therefore magnitude of a property like mass decreases while in nuclear fusion when two light nuclei combine to form a heavier nucleus it is accompanied by release of energy which occurs with decrease in separation between nucleons of the parent nucleuses means increase in space density or formation of more tightly bound nucleons in the resultant nucleus therefore flow of time within the nucleus decrease with decrease in the flow of time in the region of nucleus, therefore tendency to radiate fields falls down therefore there is same reason for mass defect in nuclear fusion as in nuclear fission, the increase in stability of new nucleus is due to the increase in compactness between the nucleons which cause the same physical phenomena which causes mass defect in both nuclear fission and nuclear fusion. Therefore we may conclude that decrease in the mass of new nuclei or mass defect is not because mass gets converted into energy instead it is an affect that occurs due to the physical phenomena’s occurring within nucleus for example in the reverse of this phenomena the reverse of this
affect is observed, we know it takes additional energy to create elements with mass numbers larger than 62 because of their lower binding energies per nucleon. This energy comes from the supernova explosion that occurs at the end of some large stars lives. Due to the absorption of energy the space between the nucleons of such nucleuses become less dense or nucleons becomes loosely packed therefore after nuclear fusion space density within nucleuses decreases and flow of time increases therefore tendency to radiate fields increases therefore mass of new nucleus becomes more than the sum of magnitudes of mass of nucleuses which fuses to new nucleus.

**About flow of field particles of energy:** Now again consider (68) to understand the flow of field particles, in (68) velocity $c$ of field particles is directly proportional to the flow of time means the region where space density is constant, velocity of field particle is constant this is the reason that why velocity $c$ varies with space density because constancy of velocity $c$ with constant space density denotes that field particles of energy pass through same number of field particles of space. We know light have dual nature one represents particle nature and one represents wave nature, like light, fields of space emitted by particle $P_1'$ and $P_2'$, can also be assumed as having dual nature to make the theory convenient in understanding, if we consider a specific amount of field particles of space as representing one point of space coordinate then one space coordinate represents fix amount of field particles of space and in constant density of space the number of field particles of space is also fixed in particular region means velocity $c$ is constant through each point of space coordinate, as each point of coordinate point denotes same number of field particles of space, it suggests that field particles of energy takes same time to pass through the effect of same number of field particles of space or space coordinates but as we go away from the surface of a body or particle for example earth, as we go away from the earth, gravitational field emitted by earth diverges and thus weakens because with increasing height divergence of gravitational field increases and space density decreases therefore force of interaction decreases, with divergence the region which denotes same number of field particles required to denote one coordinate point also increases therefore region or separation between two consecutive space coordinates increases but as the field particle of energy covers same number of field particles of space in same interval of time therefore field particles of energy covers the diverged space (which denotes same number of field particle of space) in same time. As the region of highly diverged space which represents same number of field particles is larger and field particle of energy travels through same number of field particles in same time (with $c$) therefore velocity of field particle of energy increases in diverged space, as diverged space is less denser and in less denser space flow of time is high therefore velocity of field particles is directly proportional to flow of time in (68).

**Explanation of dark matter:** In (68) as velocity $c$ of field particle is directly proportional to the flow of time in a region, which depends upon space density, in such region light starts traveling faster and when and when light comes from lighter space to denser space, it slows down as given by Snell’s law of refraction.

$$\frac{\sin i}{\sin r} = \frac{v_1}{v_2}$$

We know in universe space density varies with respect to the presence and position of heavenly bodies. The space near the surface of heavenly bodies are more denser therefore the velocity of field particle becomes slow to higher extent near the surface of the heavenly bodies therefore bending of fields of energy is more near the surface of the body as compared to the region away from the heavenly bodies where space density is low. We know range of gravitational force extends up to infinity therefore due to the presence of space density due to the gravitational field in the universe, the field particle of light continuously goes through refractions it is space density which is supposed as dark matter which causes refraction of light. As the flow of time decreases with increase in space density and with increase in space density velocity of field particle decreases therefore span of time period to travel from one place to another place increases in denser space and vice versa. It can also be understood in the way that as space density increases the space coordinates of each axis of three-dimensional coordinate geometry becomes closer and as light covers same number of coordinates in same period of time therefore due to the closeness of space coordinates between two places light takes more time to travel and reach another place and when space coordinates diverge with decrease in space density light takes less time to travel from one place to another. Therefore the continuous refraction in the path of light is due to the varying velocity of field particles of energy with respect to the space density varying with respect to the presence of heavenly bodies in the universe. If we summaries above theory then it give a picture that space is the result of fields emitted by a particle. If we consider spherical particle then the region which represents same space density is locus of all points which are equidistant from the centre of the particle, this locus represents all the points where space density is same therefore flow of time is same but at every different point in the half of the cord of curved path of a particular locus, flow of time as well as space density varies therefore field particles of energy never follows a straight path where locus is curved. This continuous refraction curves the path of field particle of energy as it travels.

**Capability of wormhole:** We know if we want to move a particle we need to apply force and if subscript $a$ denotes applied then force applied for moving the particle $P_a'$ can be written as
\[ F_a = P_{ap} \cdot a_a \quad \ldots (72) \]  
\[ \boxed{\text{force} = \text{mass} \cdot \text{acceleration}} \]

And energy supplied \( E_s \) to move a particle can be written as
\[ E_s = F_a \cdot x \quad \ldots (73) \]
\[ \boxed{\text{energy} = \text{force} \cdot \text{displacement}} \]

From (72) and (73) we can write
\[ E_s = P_{ap} \cdot a_a \cdot x \]

Above equation can be rewritten as
\[ \frac{E_s}{P_{ap} \cdot a_a} = x \quad \ldots (74) \]

Now equation (68) can be written as
\[ \left[ \frac{E_g \left( \frac{k_i \cdot k_f}{F (r_i - r_f) \cos \theta_s} - 1 \right) c}{k_i f_i \cos \theta} \right] = x \quad \ldots (75) \]

From (74) and (75) we can write
\[ \left[ \frac{E_g \left( \frac{k_i \cdot k_f}{F (r_i - r_f) \cos \theta_s} - 1 \right) c}{k_i f_i \cos \theta} \right] = \frac{E_s}{P_{ap} \cdot a_a} \quad \ldots (76) \]

Here
\[ a_a = \frac{v \cos \theta_w}{p_t} \quad \ldots (77) \]
\[ \boxed{\text{acceleration} = \frac{\text{velocity}}{\text{time}}} \]

Here \( \theta_w \) is the angle between the direction of motion of moving particle and the direction of force which is applied to move the particle it is similar to \( \theta_f \) whose value depends upon the considered situation of the motion of particle.

From (76) and (77) we can write
\[ \left[ \frac{E_g \left( \frac{k_i \cdot k_f}{F (r_i - r_f) \cos \theta_s} - 1 \right) c}{k_i f_i \cos \theta} \right] = \frac{E_s \cdot p_t}{P_{ap} \cdot v \cos \theta_w} \quad \ldots (78) \]

Above equation can also be written as
\[ \left[ \frac{E_g \left( \frac{k_i \cdot k_f}{F (r_i - r_f) \cos \theta_s} - 1 \right) c}{k_i f_i \cos \theta} \right] = \frac{E_s \cdot p_t}{P_{ap} \cdot c \cdot \cos \theta_w} \quad \ldots (79) \]

Here subscript \( \theta_w \) denotes values of attributes of moving particle through wormhole.

In (78) we see that then velocity of moving body is directly proportional to the flow of time in some region as well as energy supplied to move the particle in (79), we know displacement is measured as the separation between two points but separation between two consecutive space coordinates depends upon space density and in (68) \( E_s \) is directly proportional to flow of time means if we provide enormous energy to open space then flow of time increases means space density will decrease means separation between two space coordinates will increase but due to the tendency of energy to move a particle between two consecutive space coordinates in same time period with the consumption of same amount of energy therefore if separation between two consecutive coordinates increases then velocity of traveling particle increases as separation between space coordinates becomes larger therefore traveling particle covers large separation in same time span as compared to the time when space coordinates were close to each other. In an open system with increasing separation between two consecutive due to energy gained \( E_g \) by space, space coordinates diverges but it also increases separation between two bodies (first body (from which) and second body (to which)) along which a moving particle is traveling due to the divergence of space, therefore in an open system the main component that significantly provides velocity to the moving particle or object is the value of energy supplied \( E_s \) to move the particle and if source of \( E_s \) moves within the system of moving particle then \( P_{ap} \) becomes \( P_a \) as relative velocity between the source of \( E_s \) and moving particle becomes zero.

A practical example of this phenomena is launching of space shuttle or rocket, when a rocket is launched it is at the surface of earth where space density is high, after launching, rocket goes to the lighter and lighter space with increasing height therefore separation between each successive coordinate increases and enables the rocket to cover more height (separation points) with the consumption of same amount of energy then separation points near the surface of earth. Now if we make a tunnel with inner surface having the properties of reflecting the light just like mirrors then energy gained \( E_s \) by the tunnel will
not evacuate from the inner surface of the tunnel therefore in such tunnel as we fill the tunnel with heat space coordinates will diverge and flow of time will increase inside the tunnel and according to (78) velocity of moving particle will be very high even if \( E_s \) energy supplied to move the particle is small moving through such path is safe if the moving thing is also inside a system whose outer surface also has the properties of reflecting the light just like mirrors. Due to the energy used to increase flow of time in such path, time flows faster therefore the travelling particle or object becomes older with higher speed (but resistance to the flow of time due to the forces present within the system of the moving object or particle resist the flow of time), with providing energy in the surrounding of a particle or object flow of time can be increased and thus velocity of the particle or object, but it does not mean that travelling object through such wormholes will go into some space-time frame which represents future or past with respect to initial frame of reference (here initial frame of reference represents present universe). Therefore wormhole can be imagined similar to the path shown in movie “Thor” narrower the path lesser is the energy required to increase the velocity of the particle. The most powerful wormholes are present at the centre of each particle, from there we can go anywhere but how is to find.

About bending of lines of forces: Rearranging (68) gives

\[
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 = \frac{c}{v} \cos \theta \quad \text{... (80)}
\]

\[
\therefore \frac{x}{t} = \frac{x}{p_i} = xk_i f_i
\]

As \( \theta \) represents the angle at which the considered field particle emitted by particle \( P_1' \) travels therefore to obtain the relation that gives how bending of line of forces gets affected when the variables on the left hand side varies, multiply both sides with \( d\theta \)

\[
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 \frac{c}{v} d\theta = \cos \theta \cdot d\theta \quad \text{... (81)}
\]

Let

\[
\left[ \frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] - 1 \frac{c}{v} \right] = Q \quad \text{... (82)}
\]

From (81) and (82) we can write

\[
Q d\theta = \cos \theta \cdot d\theta
\]

Integrating both sides with respect to \( \theta \) from the \( \theta_i \) to \( \theta_f \)

\[
\int_{\theta_i}^{\theta_f} Q d\theta = \int_{\theta_i}^{\theta_f} \cos \theta \cdot d\theta
\]

\[
Q \left[ \theta_f - \theta_i \right] = \sin \theta_f - \sin \theta_i
\]

\[
Q[\theta_f - \theta_i] = \sin[\theta_f - \theta_i]
\]

\[
Q \theta_f - Q \theta_i = \sin[\theta_f - \theta_i]
\]

Let above equation be equal to

\[
Q_f - Q_i = \sin[\theta_f - \theta_i] \quad \text{... (83)}
\]

Let the single notation for variation for

\[
Q_f - Q_i = Q_i \quad \text{... (84)}
\]

And notation for variation for

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\[
\sin[\theta_f - \theta_i] = \sin[\theta_i], \quad \ldots (85)
\]

From (83), (84) and (85) we can write

\[
Q_v = \sin[\theta_i]. \quad \ldots (86)
\]

From (82) and (86) we can write

\[
\left[ \frac{E_x}{F} \left( \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right) - 1 \right] \frac{c}{\nu} = \sin[\theta_i], \ldots (87) \quad \Rightarrow \quad v = \frac{x}{t} = \frac{x}{p_i}
\]

In (87) \([\theta]_v\) represents the angle between the normal of the initial and final curve from the point of emission of field particle. In this equation \(\sin[\theta]_v\) is inversely proportional to force therefore to the magnitude of considered property of particles \(P_1^1\) and \(P_2^1\) as well as the distance traveled by particle \(P_1^1\), as the value of these variables increases, the value of \(\sin \theta_f\) will decrease therefore \(\theta_f\) becomes smaller therefore we may conclude that when two particles attract each other, the line of forces gets bent to a smaller angle and vice versa. Like magnetic lines of forces, the line of forces of all other properties like charge and mass gets curved. We know value of \(S\) determines the space density and as these lines of force makes the space, the bending of lines of forces bends the space itself.

**Reason behind the magnetic fields:** It is a fact that whether it is orbital motion of electron or planets or heavenly bodies, generally revolves and rotates in anticlockwise direction with respect to other bodies, it suggests after attaining stability about angular momentum, the net average angular momentum of all the bodies of universe got the anticlockwise direction, now considering a particle moving and rotating in anti-clockwise direction, when interacts with another particle then due to the rotation of the first particle around its own axis due to its angular momentum, line of forces interacting between the particle avoids any increase in the length of line of force which connected both the particles as increase in the line of force means divergence of space which requires energy and this process is occurring without supplying energy to the particles, therefore due to inability in any increase in the line of forces between the two particles, the particle makes another particle try to move in the direction so that no increase in the lines of forces connecting both the particles could occur and due to the bending of lines of forces due to the interacting nature between the two particles the motion between the two particles start obeying curved path and then orbital motion with angular momentum depending upon the magnitudes of force each particle is exerting on each other. To understand this we are considering two particles \(P_{m_1}\) and \(P_{m_2}\) with same magnitude and properties rotating in anticlockwise direction

![Diagram: Two particles rotating in opposite directions](image)

The points \(P_{s_1}\) and \(P_{s_2}\) in the above figure which remains equidistant at each moment of rotation of particles, these kinds of pairs of points existing all over in both particles will try to remain equidistant while rotation because such effort reduces any increase in line of forces connecting these kind of pair of points because increase in line of forces connecting these kind of pair of points requires energy thus tends to spin both the particles in the same direction but as both the particles emits fields of forces, they form space around them and while having motion both particles move through the space and while rotation each point of both the particles goes towards the space coordinates which are in the front of the moving point of the particle but the same point also goes away from the space coordinate which lies at the back face of the moving point in first interaction the decrease in the length of lines of forces emitted by the point and space coordinates in the front of the point therefore with respect to the properties of the particle a form of energy is released while in the second interaction in which the same point goes away from the space coordinate which lies at the back face of the moving point causes increase in the length of lines of forces emitted by the point and space coordinates at the back face of the point therefore with respect to the properties of the particle a form of energy is
required, the energy required for this is provided by the energy emitted in the same phenomena and as they are opposite of each other and equal in magnitude they attract and vanish the effect of each other and their propagation direction is perpendicular to the motion of the moving point because these two directions are symmetric to the motion of the point therefore suitable for propagation with stability and if particles have same property then both particles will emit same kind of fields from their top end or bottom end and these fields are named with north pole and north pole, both the fields acquire opposite properties because as one attains the properties of requirement while other attains the properties of emission or properties to fill the requirement. These fields attract each other because later require first to get neutralized and as at other than the plane of neutrality these energy has properties of exerting force on each other, the force exerted by these energies can also be converted into other forms of energies by using suitable mechanism. Machines can be made which is not explained in this theory using which we can convert this energy to derive a machine and deriving force of machine can be used to generate electricity.

Some reasons behind the birth of universe: We know according to the theory of big-bang before the birth of universe there was no matter, no time, no space, all these situations are the characteristics of zero space means before the birth, all attributes of nature has infinite tendency for creation, therefore everything which were infinite in zero space created everything by everything from everything and so on (means every relation of everything with everything) as in zero space tendency for creation becomes infinity for everything it performed the birth of universe. Infinite flow of time represents infinitesimal small period of time, therefore birth of universe took place in infinitesimal small period of time and in (67) if we substitute \( P_1 \) or \( P_2 \) equals to zero then we obtain infinite value of flow of time which represents infinite tendency to give \( E_s \) due to the relation of proportionality. This infinite tendency to give \( E_s \) is because of infinite lightness of space density means before the birth, as there was no space and energy in the form of radiations, energy in the form of radiations was emitted while space got denser. We know space becomes denser in a region when amount of matter in that region increases and as space density increases flow of time \( f_e \) decreases with increase in the period of time \( p_t \) in (65) thus tendency for creation fallen down as everything came into existence in that infinitesimal small period of time and stopped the creation in the region which lost the property of zero space means every region out of the centre of particle, therefore the summary is that time, matter, energy, and space etc, all come into existence simultaneously. Now we may conclude that before the birth of universe there were certain quantities which had infinite values like infinite values of flow of time, infinite tendency to give \( E_s \) and infinite tendency for creation etc. However before the birth of universe there was no space means no field particles or we can say the separation between two consecutive space coordinates was infinite therefore practical property of such region is making the transmission of anything in infinitesimal small time between two separating points or we may consider that the region existing before the birth of universe as a single infinitesimal small point as a particle can reach from one point to another in infinitesimal small time only if these are infinitely close to each other but the region covered by this infinitesimal small point was infinite according to space coordinate system because in such a region a particle can transmit with infinite speed between any two separating points but this example is just explanation of practical property of such region, however to give motion to a particle energy is required but before birth there was no particle, no energy but separating points were existing between two points and we know the region where space density is zero, time flows with infinite speed therefore fields of energy in such region are propagating with infinite velocity but unlike nuclear or electrostatic field which neutralizes by particles having opposite properties, gravitational field and electromagnetic field does not vanishes with propagation therefore for any finite distance whatever it is our universe can be detected.

Form that our universe took after its birth: As infinite tendency for creation by zero space created everything which is visible to us means versatility or similarity etc., everything created from zero must all over be zero therefore even though infinite tendency for creation created versatility in the properties of entities present in universe, all over the average sum of all properties of all entities gives a neutral environment to understand this consider an example, if we consider a proton having unit positive charge (consisting of one down and two up quarks) and a hypothetical particle with three down quarks that makes a unit negative charge and a neutron (consisting of one up and two down quarks), then the average sum of properties of these particles makes a neutral environment and the energy required to give to give versatility in in properties to particles whose average sum of magnitudes of properties is nothing, it can be understood by calculation explained further, instead of getting to know energy gained or loosed by the surrounding which is dependent on separation between the particles if we consider the effect of change in the energy gained or loosed when particles came into existence then we need to consider the property of charge in energy gained or loosed when property of versatility like charge on particle came into existence therefore if we consider a property of versatility as charge then energy gained or loosed when particles interacted after coming from zero space, can be taken as measure of charge on particles therefore measure of proportion of energy gained by interaction between the particles can be obtained by adding the sum of magnitudes of charge on oppositely charged particles (as oppositely charged particles gives energy to surrounding when interact by itself) and energy loosed can be obtained by subtracting the sum of charge on similarly charged particles, therefore the energy distribution of energy gained or loosed by considered neutral environment of three particles can be diagrammatically shown as
In the diagram shown below

d: Represents down quark and $-1/3$ represents charge on down quark

u: Represents up quark and $2/3$ represents charge on up quark

**Direction of arrows:** The direction indicated by the arrows shows the direction of spin of quark upon which arrow is shown.

**In unit positive charge of fig:-1.1:** The values

$E_{puud}$: It indicates the energy gained by the surrounding by the formation of bonding between an up quark and a down quark, similarly $E_{puud}$, $E_{puud}$, represent respective notation shown in fig:-1.1, unit negative charge and neutral charge in fig:- 1.2 and fig:- 1.3 obeys same rule.

$E_p$: It represents the energy gained during the formation of unit positive charge by interaction between the three quarks in fig:-1, $E_n$ and $E_o$ has similar meanings with respect to their respective particles.

$E_i$: It represents energy by surrounding due to interaction between two oppositely charged particles with unit charge of fig:-1 and diagram:-2

$N$ and $S$: These represents two opposite kinds of fields emitted by the two ends of the quark due to its spin and rotation with respect to other quarks the requirement of these two opposite kind of energies for each other makes attraction for each other and thus forms bonding with neighbor quarks just like covalent bonds between two carbon atoms with the help of two oppositely spinning electrons involved in covalent bonding and thus neutralizes each other’s fields and therefore are not felt far away from the quarks because they get neutralized by each other’s effect, therefore they act as short range forces.

The plane formed by connecting the centers of three quarks in each figure shown below is represented by three lines connected at the centroid of the three quarks in each figure

Therefore total energy required for forming or gained by the formation of combination of interacting particles whose average sum of magnitudes of properties on particles gives neutral value for all properties becomes

$$E_o = E_p + E_n + E_o$$
Therefore for forming the universe with versatility in properties of particles acquiring all over the properties of neutrality can be created with the varieties of properties without any input of energy therefore zero space created versatility without requiring anything however interaction between particles having properties other than neutrality as shown in the result of expression of \( E_a \) radiates energy in the form of heat with respect to the magnitude of property of the particle. Therefore energy in this universe in the form of radiations are due to the stabilization of oppositely propertied particles and increase of density of space by virtue of increase in the amount of matter in some region due to the force attraction between entities of matter and the reason for Big-Bang is, for increasing the number of things, coming into existence by infinite tendency for creation requires increase in the density in the region where creation took place which requires emission of energy, here the infinite tendency of infinitely light space to give infinite energy came into action, as creation gave birth to matter, properties, energy, time, and space, etc., simultaneously in the region which had the property of zero space, due to infinite tendency to give energy of the region before everything that came into existence, with the first point of creation energy tends to infinity was created which is accompanied by increase in interaction between oppositely propertied particles and increase in amount of matter at the point of creation, this created energy again had to decreased the density of space by expanding it thus caused the big-bang. Therefore the energy (supposed as dark energy) which is expanding the universe is the combination of all kind of energies that came with creation of universe and due to the involvement if infinity tendency for creation in the big-bang we get everything to such a big extent. The dark energy travels with the expansion of universe with the its velocity and due to the absence of resisting space outside the zero space the region in which the particles emitted by big-bag offered the velocity tending to infinity as at the time of big-bang outside the point of creation (the point residing in everywhere) everywhere flow of time was infinite therefore as per equation (78) the velocity of motion of particles tends to moving with the velocity of infinity and just the moment big-bang happened the universe get expanded to a very large region and just after the big-bang due to the coming presence of matter and energy and all other attributes, they started acting their impact therefore force of matter causes space that resisted the flow of particles and force of heat energy enabled high flow of moving particles but as the point of big-bang lies behind the particles or things that were emitted through big-bag and as result of (41) tells that no activity (big-bang is also one of them) occurring behind the particle can move a particle with velocity more than the velocity by which energy travels and a blast always makes the energy to be radiated in the direction away from the point of blast therefore the transmission of dark energy took place with propagating in the direction away from the point of big-bang and it is accompanied by increase in space density in the region from where dark energy got transmitted and as \( E_g \) in (85) will reduce from the region from where it moved to the direction of its propagation in that region this reduction in \( E_g \) reduces \( k_r f_r \) in this equation in such region and we know reduction of flow of time is attained by increase in space density which is attained by decrease in the distance between attracting particles of matter in such region therefore forms galaxies, therefore formation of galaxies or atoms or different structures like particles or atoms near point of creation of universe or big-bang took place earlier than the region away from the point of big-bang and the reason of formation of atoms can be understood by diagram:-2 as quarks becomes closure the strength of dashed line increases thus avoids further bending of this dashed line thus keeps the quarks at certain distances and at above these certain distances the force acting between these dashed lines makes the quarks closer by emitting energy and the reverse requires energy, further the measure of energy gained by the formation of proton is \( 2/3 \) while energy gained by the formation of neutron is \( 4/3 \), both are positive means their formation can take place by itself therefore they exists in nature but energy gained by the formation particle in fig:-1.2 which has one unit negative charge is \(-6/3\) which is negative therefore its formation cannot take place by itself and its very higher value prohibits its formation therefore such particles does not found (since all quarks in diagram:-2 are spinning in anticlockwise direction except the topmost quark in fig:-1.2 which is spinning in clockwise direction therefore its arrow is designed differently to show the exception), therefore as energy gained (\( E_a \)) by the formation of this particle is negative, it cannot form itself. As high tendency for creation at zero space enables high tendency for the creation of force of neutrality, which is always attractive, which falls down as we go away from the center to surface of considered particle if a particle acquires a property other than neutrality it will be either positive or negative which when a particle acquires, the attractive force exerted by neutral fields bears the force of repulsion between the material (as force due to same charge within different parts of a particle acts repulsively between the material of the particle) of the particle near the zero space due to very high tendency for creation of neutral fields near the zero space of the considered particle beers the force of repulsion very effectively at near space and this effectiveness decreases as we move away from zero space due to conversion of fields of neutrality into the fields of charge acquired by the particle thus causing force of repulsion between the material of the particle therefore at a discrete value of radius of particle where this effectiveness decreases enough, that after that radius the attraction of neutral fields and falls enough such that it becomes unable to bear the
force of repulsion between the material of particle it breaks down or does not attain more radius than this, as effectiveness to bear a force other than neutrality is higher near the central point of particle therefore smaller particles like electron can bear a unit negative charge while quarks which are bigger than electron bears less amount of charge as effectiveness to bear charge due to their larger size is smaller at the surface of quark therefore small sized particles bears high value of repulsive force acting within the material of the particle. This effectiveness to bear force other than neutrality is named as weak forces and its strength strengthens as we go towards the center of particles and weakens as we go away from the center of a particle and when these weak forces gets enough effected by the situation of environment like interaction through photon or bombardment of other particles whose effect when becomes unbearable for a quark, it trans forms and attains new properties and we know anything other than neutral is either positive or negative any small variation from neutrality tries to completely into that charge which is other than neutral therefore each particle has a constant amount of charge as with respect to material that a particle has as each part of the particle leads to creation of a constant amount of energy with respect to the flow of time present in that part which varies from center to surface of the particle with a constant variation leading to a constant charge to the particle and the magnitude of charge tells how much variation is there from neutrality and represents the power that a particle require to transform, therefore any alteration in the property depends upon the magnitude of charge on a particle and variation in property or charge occurs with respect to the magnitude of property on the particle therefore as the transformation occurs with respect to magnitude of property on particle the variation from neutrality occurs with respect to the magnitudes of properties on the particle means when a down quark emits a electron in $\beta^-$ decay an electron and an up quark the sum of whose charges is equal to the charge on down quark. Therefore the new properties attained depends upon initial state of particles involved in the transformation and give rise to different flavors to the particles formed means different quarks or elementary particles having different mass has different bearing capabilities for external impact, smaller particles has high bearing capabilities while heavy particles having less bearing capability therefore goes through weak interactions easily, therefore with respect to initial properties of particles involved in the transformation after the decay, the particles formed abstract the properties of parent particle and the positivity or negativity gained by a particle give response to the fields of force impacting them in positive and negative way with respect to the charge that a particle has everywhere in the universe but is it universe?. We know everything existing having properties other than neutrality gives birth to versatility through interaction and this versatility is due to the anti-behavior between interacting particles getting power from neutral creation by the physics of zero space therefore the existing thing which we are calling universe is existing due to anti-verse nature between the particles or ASANTULAN (असंतुलन) its English translation is imbalance or versatility, due to these properties it sustains itself otherwise it will disappear to its initial state or as it becomes SANTULIT (संतुलित) its English translation is balanced without difference, it will disappear. It can be understood in the way, the dark energy present in the universe is expanding the universe and as universe is expanding the galaxies are moving to the region having high flow of time thus just like a rocket moves with higher velocity as it goes away from the surface of earth with the consumption of same amount of energy and thus found to be accelerated due to the high flow of time in the region away from the surface of earth (operating equation for this phenomena is \(78\)) the velocity of galaxies are founded accelerating but velocity of white energy is \(c\) and none of the blast can move a particle with velocity more than \(c\), big-bang is also one of them, white energy will eventually evacuate the region of materialistic universe and left behind the matter, with evacuation of white energy or energy in the region of space, the flow of time will decrease in that region and it is accompanied by increasing space density, which occurs when two bodies come close to each other which means starting of collapsing of heavenly bodies under the effect of gravity, as flow of time will decrease, due to increase in the amount of matter in the region of collapsing universe and due to the merging into an singular body, the universe which was created with the season that all over the average sum of all properties of all entities created by big bang gives a neutral environment therefore with collapsing of universe into a singular body it starts attaining the property of neutrality or singularity as the flow of time \(k, f\) decreases from zero space to the surface of that singular body therefore tendency for creation falls from center to surface of that body, as tendency for creation falls therefore tendency for destruction rises as both are inverse of each other and as universe was created by infinite tendency for creation, it created enough matter that after merging into a singular body, the tendency for destruction tends to infinity, therefore infinite tendency for creation created universe its inverse will destruct universe absolutely thus again return to the state from which it was created and after complete destruction of period of time of the universe (as with fall in creation flow of time falls thus with rise of destruction period of time rises and infinite tendency for destruction can be achieved when period of time tends to infinity, therefore age of the universe tends to infinity but not equal to infinity, its reason is given the section “Equation expressing God’s capabilities and emotions as force”) it destroys itself therefore again due to destruction of matter force associated with it becomes inactive thus flow of time again rises to infinity and again causes Big-Bang but the effect of each succeeding Big-Bang and destruction of universe it lefts behind energy to what exists after the destruction of universe which effects the next big-bang and the moment when destruction destructs and creation creates both gets separated (in Puranas it is referred as separation of Shiva (god of destruction) from Shakti (goddess of source of power of everything, creation itself) which gave birth to the universe.

**Reason for stable structure of nucleus:** In diagram: 2, as far as nucleus of isotope protium of hydrogen atom is considered, which is indicated in fig:- 1.1 its quarks are free to revolve with respect to each other thus keeps changing
the flavor of color with change in the spinning direction of quark while revolution of each quark under the effect of force of neighboring quarks but if we place plane of neutron of fig:-1.3 on the plane of proton of fig:-1.1 after rotating the plane of neutron at 180° according to the plane of the paper as well as 180° with respect to the depth of the paper then it will look like structure of nucleus of deuterium of hydrogen and it will look like

Diagram:-3

In the Diagram:-3 the plane of dashed line which contains centroid is the plane of proton which lies at the back side of the neutron, in this structure in their planes the opposite kind of fields emitted by the two poles of each quark of proton makes attractive pair of $N---S$ or $S---N$ with neighboring quark of neutron in the structure thus quarks of protons forms bonding with the quarks of neutron and forms stable structure but due to the bonds formed in this structure, the bonds formed between the baryons binds the planes of both baryons in front of each other in static position thus prohibits the revolution between the quarks with respect to each other not spin about their own in each baryon thus change in the flavor of colors of each quark with running time stops down, similarly a stable bond between the quarks of the two baryons can be formed by rotating the plane of one baryon at 120° and placing it near the other baryon as shown below

Diagram:-4

Which again makes a stable attractive pair of $N---S$ or $S---N$ between the quarks of two baryons such kind of interactions makes a nucleus stable and just like magnetic fields emitted by permanent magnets interact (attract or repel) very effectively when two magnets are very near to each other and even overcome the gravitational
force of earth to interact when they are near to each other but after certain distance they becomes unable to attract or repel each other effectively because fields emitted by two opposite poles of a magnet attract each other and gets neutralized therefore becomes ineffective for large distances therefore nuclear force which are associated by magnetic fields emitted by the two poles of the quarks in equal amount, nullify the effect of each other and are not found away from the nucleus and acts as short range forces.

As neutron gives birth to a proton with emitting of electron due to the interaction with energy which came with the creation of universe and as particle shown in the center of Diagram: 2 does not exists therefore birth of particles of universe can be supposed as took place from neutron kind of environment that gave birth to different kind of particles due to interaction with energy.

**Equation expressing God’s capabilities and emotions as force:** To understand emotions as force we will consider equation (79) and rearrange it

\[
\begin{align*}
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right]^{-1} & = \frac{E_s \cdot p_i}{k_i \cdot k_f \cdot \cos \theta} \cdot \frac{E_s}{P_{ap} \cdot c \cdot \cos \theta_w} - 1 \\
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right]^{-1} & = \frac{E_s \cdot p_i}{k_i \cdot k_f \cdot \cos \theta} \cdot \frac{E_s}{P_{ap} \cdot c \cdot \cos \theta_w} + 1 \\
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] & = \frac{E_s \cdot p_i}{k_i \cdot k_f \cdot \cos \theta} \cdot \frac{E_s}{P_{ap} \cdot c \cdot \cos \theta_w} + 1 - \frac{1}{p_i} \\
\end{align*}
\]

\[
\begin{align*}
\frac{E_g}{F} \left[ \frac{k_i \cdot k_f}{(r_i - r_f) \cos \theta_s} \right] & = F \left[ \frac{E_s \cdot k_i \cdot f_i \cdot \cos \theta}{P_{ap} \cdot c \cdot \cos \theta_w \cdot v} + \frac{1}{p_i} \right] \\
 \text{power} & = F \left[ \frac{E_s \cdot k_i \cdot f_i \cdot \cos \theta}{P_{ap} \cdot c \cdot \cos \theta_w \cdot v} + \frac{1}{p_i} \right] \\
 \text{power} & = F \left[ \frac{E_s \cdot k_i \cdot f_i \cdot \cos \theta}{P_{ap} \cdot c \cdot \cos \theta_w \cdot v} + \frac{1}{p_i} \right] \cdot \frac{(r_i - r_f)}{k_i \cdot k_f \cdot \cos \theta_s} \\
\end{align*}
\]

The physics of equation (88) tells at zero space due to infinite flow of time the creation capability of zero space is infinite therefore capability for providing power by virtue of creation is infinite but due to zero volume of such region the force exerted by such region is zero therefore acts as giving no force, therefore even though it has infinite capabilities it does not has infinite power but its physics tells how something gets power from nothing and how this nothing acts as the reason of everything. It is present in everything and provides all capabilities and the thing which doesn’t exist as per material world cannot be finished as per the properties of material world therefore is indestructible but is the base of everything. Whenever we come out of zero space period of time keeps increasing due to decrease in flow of time and as per equation (88) therefore power giving capability outside the zero space keeps decreasing with increasing period of time that leads to the end of the entity into that one which is nothing as well as reason of everything that is how death occurs. As in equation (88) power of particles is associated with properties of particle which is associated with the material of the particle but zero space is such a thing which denotes zero volume, in **Vedas** the unshaped entity is named as **NIRAKAR** (निराकार) thus carries nothing of this material world but acts as initiator of providing every power to this material world. In Vedic scriptures this indestructible entity is named as **PARABRAHMA** (परब्रह्म) and as per **Quran Shareef** as **ALLAH TALLA** (الله تعالى) which is reason of everything but itself is beyond this material world, due to its infinite capability it can do anything without any dependency on
anything but everything in this material world is dependent on it. Infinite tendency for creation of it creates material world’s having different properties and different kind of powers associated with physics of each of it, the way of their existence can be seen as different religions each having its own truth. As it lies inside each thing and provides all the capabilities to everything it is supreme to all. As we come out of zero space we inter into this material world with respect to the kind of physics that equation (88) we operate and this equation just gives hints of that indestructible entity but cannot explain it completely just like all other definitions of it available in the Holy Scriptures as it is infinite in certain ways therefore never reaches completion in those ways and keeps extending in those ways, but whatever it creates having materialistic properties has a period of time \( p_j \) with respect to the power of its creation capabilities and as its period of time reaches its end with the end of its creation capabilities that entity dies for example when period of time tends to infinity, the power of the universe tends to zero therefore ends itself into zero space which has zero power but capability to do anything of its desire which is gained by the impact of its surrounding on it (as explained in the last of the section “Form that our universe took after its birth” the energy left by birth and destruction of universe impacts next big-bang). As reason behind every capability is entity of zero space, therefore sometimes referred as supreme power as well as zero energy).

Now coming back to the physics of zero space, as zero space has infinite capabilities and when we take distance from zero space which is origin of a particle then \( r_j \) remains equal to zero and outside the zero space \( r_j \) will be always greater than \( r_j \) and for the case when all other variables has positive sign then sign with power in equation (88) become negative and as we go towards zero space flow of time keeps rising and thus the value of power also, therefore tendency to absorb energy coming to it keeps rising and at zero space flow of time becomes infinite therefore represents the point having capability to absorb each and every feature of energy but at zero space value of force also becomes zero therefore absorption of energy becomes zero therefore zero space without absorbing the energy with respect to the physics of materialistic world access the effect of every signal coming to it, as the tendency for accessing the response of every energy is infinite at zero space therefore has the tendency to access the response of every energy associated with every property doesn’t matter energy is associated with force of charge, mass or emotions without taking energy into it. To understand the force of emotion consider an example, if I speak the name of a running person and he hear my sound he will react as per his will for example if he stops, he will manipulate the first law of motion that a body remains in motion until an external force acts to change the motion of body, here external force which acts as input to change the motion of body are feelings or emotions. The point from where the input of force of emotions are accessed lies in the infinite tendency of zero space to access response of energy associated with the force associated by every property of particles doesn’t matter force is associated with charge, mass or emotions (signal of emotions are composed of combinations of forces associated with different energies working analogously by interacting particles or bodies with each other with respect to the properties of the bodies or particle in nature) and through these type of interactions the capability of zero space connects whole universe via forces in space and controls the whole universe without any effort to control it with the property of creation and lies inside each entity at its center, as zero space never vanishes and keeps a particle alive and gives a particle the capability to react to the surrounding with the physics of equations like (88) through the combination of energies and forces associated with each property of particle, the continuous connection of universe via fields of energies provides analogous nature to discreteness (presence of different particles at different positions in space) of universe means continuous connected signaling system. The infinite tendency of zero space allows access to signals of every force and the tendency for creation allows freedom to act in infinite number of ways (the way selected for reaction depends upon the features acquired by the entity during evolution).

**Interesting fact:** When one reaches infinity in one way it also reaches the value of zero in some another way and vice versa, if in that aspect infinity leads to create, zero tends to destroy and vice versa therefore creation and destruction keeps acting and with the period of time which comes into action when an entity comes into existence with respect to its power every entity creates and destroys with respect to its period of time, universe itself.

**Attractive nature of zero space:** Because zero space has characteristic of infinity with the absence of positivity or negativity therefore upper and lower limits of it are sign less and infinity to any of its \( dn \) characteristics, therefore the properties of its creation will be

\[
\int_{-\infty}^{\infty} dn = 0
\]

Therefore it is property less (in Vedas this kind of attribute is named as NIRGUN (निर्गुण)) therefore zero space gives birth to the fields having neutral nature as zero space itself is beyond these material properties but it’s two characteristics zero (like zero volume (निर्माण)) and infinity (like infinite tendency for creation (असीम)) provides an effect which is neutral for everything up to infinity but acts its effect on everything in the form of attraction because power of that supreme power which gave birth to everything has relation of motherhood to everything to which it gave birth (in Vedas this feminine power is named as ADI PARASHAKTI (आदि पराशक्ति)), it loves its every creation and accept it independent of the fact whether it is negative or positive and nourishes them by its power.
**Evolution:** As explained the center of each particle (zero space) contains infinite processing capabilities due to infinite flow of time, therefore it is able to process every process with infinite speed due to the absence of force that resist the flow of process and as we move from zero space period of time born due to resisting force offered to the flow of time with respect to the distance from zero space of a particle. Till now we saw three things

1. Space
2. Time
3. Force

Space coordinates varies as we move from one place to another and time passes when we go through space coordinate, along with space and time, the force present in a region brings a impact along with energies present in that region, as we move from one place to another, energy levels like the light coming towards an entity from different parts of a region changes when entity changes its position in a region means variables of nature are linked with each other just like in equation (88) change in any one variable in right hand side has an effect on the magnitude of power in this equation and we know the type of fields of forces produced by a particle is dependent on the fields emitted by a particle and explained in the section “Force as emotions” every particle absorbs the effect of every signals coming to it and due to the attribute of processing capabilities with respect to the properties of the particle it gives its corresponding effect on the surrounding and during this, an effect on the particle is generated which effects future processing by the particle, therefore two another things involved in bringing the change are

1. Particle
2. Surrounding of the particle

Which continually interact in analogous way via interacting fields of forces continually produced by the creation capabilities of the particles within different particles. We know each particle has a value of power to radiate fields with respect to the creation capability of the material of the particle which depends upon the flow of time within the material of the particle. Therefore three capabilities arises due to the power of particle

1. Absorbing
2. Processing
3. Responding

Just like when we see or touch we feel different colors and sensation corresponding to each picture, in the same way as a brain processes the energies associated with each color (fields of energy), a particle processes and provides the outputs to the inputs which are further sensed by surrounding particles (brain itself gains processing capabilities by the mutual interaction and processing between the particles and by the particles of brain respectively) this processing capability of a particle provides conscious ability to the particle which variables with respect to the variation of variables in (88) type of force associated with the fields of response given by particles in a environment is gained by the particles of surrounding which again does the same thing with surrounding particles therefore an act of action and reaction gets established. During this action and reaction process the fields emitted by particles keeps modifying with changing environment as inputs of signals going to the particles changes with changing environmental conditions therefore process of processing varies within particle therefore brings particles to newer states with new properties with passage of time, therefore variation in the type of force associated with various properties gained by these action and reaction took the form which effects the force of fields associated with each particle of environment and in accordance to the physics explained by equation (88) the variety of forces associated with new properties makes the flow of fields in environment in accordance to the environment. these fields bring conscious change to the mental states of the particle which means different feelings felt by the particle by conscious power which varies as variation in the variables in the right hand side of equation (88) varies, here force associated with new properties gained by the particles can be named as force of consciousness, therefore as equations (88) tells with respect to varying state of particles by the act of action and reaction with time a continuous varying force of conscious starts causing emotional interactions between the particles therefore each particle associates the force causing emotional impact which moderates by fields of emotions associated by each other particle, therefore a continuous varying force of consciousness starts flowing with respect to the physical condition of a region but as a particle has a constant value of power associated with creation capability of particle therefore the mentality attained by emotions flowing in a particle has a constant impacting effect on the surrounding and all these processes occurs in space composed of different fields of emotions, during each movement between fields of space and particles, the power of consciousness gives birth to two forms of effects in the aspect of behaviors of mentality just like magnetic fields by the two poles of the magnets, therefore a effect causing two opposite behaviors on mentalities is radiated in opposite directions which have attraction for each other to fulfill the requirement of each other therefore the particles in the influence of these two opposite fields tries to meet each other by their interacting behavior within nature as they come towards each other they react and forms a new entity along with simultaneous creation of effect of two opposite behaviors during their motion towards each other therefore forms a system having capabilities to fulfill the requirements of each other for
example soil for grass, grass for goat, goat for lion and so on, males and females as well as therefore versatility grows with keeping all over neutrality (as sum of two opposite quantities in equal magnitude is equal two zero) in the system of entities and its surrounding and the behavior of keeping neutrality within versatility keeps a continuous balance between two oppositely propertied bodies therefore however every entity is free to feel but whatever it feels has a impact on the surrounding by force of consciousness flowing in a region which brings variation in attributes of mentality like hate, needs, desires of biological bodies to each other with resisting the imbalance and as each region of universe has a environment therefore corresponding to the environmental conditions each environment has an associated force of consciousness with respect to the environment and in accordance to the force of consciousness evolution in a region takes place and as whole universe is continuous by connecting medium of space which is composed of different energies traveling through it thus it brings different impacts to different environments, therefore in terms of force of consciousness a continuous interaction between the conscious force of each environment is established just with respect to distance variation in the force of consciousness changes and due to the variation in the type of force of consciousness operating according to environmental conditions of the region a impact on the evolution of biological entity is created but in a continuous manner with respect to the type of continuity between different environments without failure in accessing any change whatsoever variation occur in universe with time as force of consciousness is capable to adopt any change by the absorbing, processing and responding capabilities of the particles of environment and as zero space has capability of infinite creation and it provides processing capabilities tending to infinity, it provides a continuous varying force of consciousness with varying changes of environment with time therefore evolution never fails to respond the change of environment under the capability which allow biological process to occur.

During evolution with the birth of two behaviors under the effect of force of consciousness with change in the positions of entities present in world via two different mentalities by the effect of two opposite emotional effects produced during changes occurring in world with time due to the creation of two opposite kinds of fields with changing positions of particles in space, gives birth to two entities having opposite properties due to their formation under the effect of two opposite kinds of fields of energies having two opposite emotional impact therefore mathematically if \( m \) represents mentality through which two opposite behaviors, one with positivity and one with negativity in behavioral aspect with respect to the relation between both behaviors then upper and lower limits of the mentality will be \(-B\) to \(+B\), here \( B \) represents behavior and we know each behavior is associated with an entity, therefore number of entities \( E \) formed with the growth of two opposite behavioral aspect of biological bodies can be can be written as

\[
E = \left\{ \int_{-B}^{+B} dm \right\}
\]

\[
E = \left[ m \right]_{-B}^{+B}
\]

\[
E = \left[ B - (-B) \right]
\]

\[
E = \left[ B + B \right]
\]

\[
E = 2B
\]

Therefore evolution proceeds with formation of two behaviors having opposite to each other to fulfill the needs of each other.

In simple words as each force of consciousness has field distribution of energies associated with each feeling present in force of consciousness and different feelings represents kinds of fields associated with each feeling, the different inputs of energies associated with each feeling are processed as per their character by the processing capabilities of particles and a corresponding effect is given after processing the attribute of fields, therefore with respect to input the output is produced that effects further reactions of interactions between the particles of the biological bodies thus give rise to next energy levels of feelings and then emotions to consciousness and behavior of the biological bodies means consciousness gives power to emotions which born mentality and through it behavioral aspect of a biological body comes through response thus gives birth to two bodies having opposite properties.

**Structural dependency of biological body on mental growth of biological body:** As each particle associates a constant value of power which processes the force of consciousness and respond as per mentality attained by the particle in the effect of force of consciousness the different aspects of mentality like lust, desire, hate, love etc. which all are accessible for a particle grows but their magnitude is as per power of the particle. Different mentalities generated in the particle has different needs and desires to which they try to achieve and the continuous force of
consciousness operating between different particles of nature to resist imbalance makes a path for a particle to achieve that desire in order to do this, it keeps forming structures with each succeeding fulfillment of needs, during this a mental growth appears which has two aspects one is consciousness means responding to current state of environment and second is memory which contains effect of all past succeeding incidents occurred with the biological body, the current responding behavior or mentality drives the memory to bring changes to the body with respect to the all desires, needs and other aspects of mentality to form a system as per the memory thus forms structural growth with mental growth of the biological body which includes consciousness and memory of the biological bodies thus by the intelligence of processing capabilities of each particle present in the biological bodies, biological systems evolve with respect to the memory which acts subconsciously under the effect of consciousness of the biological entity therefore forms different biological structures as per mental growth of the biological entities and each mental processing effects the interaction between the materials present in the biological bodies as per flow of force of consciousness therefore undergoing through chemical reactions effects biological structures in certain and corresponding way and thus effects different structural parts of the biological bodies. Thus provides the shape of look of different parts of biological bodies in respect to the mentalities of the biological bodies. For example just like in humans consciousness causes secretion of epinephrine in the generation of strong emotions like anger or fear, the effect of sub consciousness causes secretion of different fluids as per mentality of creature the pressure built by the mentality pressurizes the flow of fluids into the region which is experiencing the force of mentality which causes formation of new cells in that part of body for example every born child has concave shaped nose as shown below in picture no: 01

Picture no: 01

As a child becomes sincere or learn how to behave with respect to the emotions of people in their surroundings, a mental pressure is built causing formation of new cells which decreases concaveness of nose giving the shapes shown in rightmost nose in the sketch shown below

Sketch: 01
The pressure of mentality directly impacts the arc of top of the nose and sometimes more pressure even starts growing a bump in upper periphery of nose as shown in the second nose from left in the same drawing such people merely expresses their internal emotions and generally has an emotion to respond by considering the respect of themselves as well as the respect of the people in their surroundings the formality, for some specific category of peoples like teachers, seniors or uncles, only causes the upper part of the nose in increasing the convexity of nose as shown in this central nose and if formality come to friend level means for approximately everyone then bump also goes to the lower part of the nose as pressure generated by brain starts pressurizing the presence of fluid to the lower part of the nose thus forms the nose having shape part of shown in right most nose in the drawing and when a person becomes fast reactive irrespective to the mental growth of formality a pressure is built in brain which makes the mentality to push the fluid at the tip of the nose which touches the upper part of the upper lips as shown in sketch: 02 just like in monkeys and cats in picture:02 and picture:03 respectively as shown below

![Picture: 02](image1)
![Sketch: 02](image2)
![Picture: 03](image3)

But this pressure doesn’t mean an extra burden to the brain, it just expresses the aspect of mentality for example in peoples having mentality very calm or less reactive due to enhanced understanding capability for the situation has generally very slow flow of fluids between the jaws and neck (in the front of neck below jaws) due to the calm nature, thus allow more time to fluids to form cells in that region thus has a great volume of skin of flesh over there.

In simple words: Different creature’s different shapes is due to the difference in mentalities built during evolution and having a certain way of growth of them under the effect force of consciousness.

**Interesting facts:** The reason for such variation in mentality is “Theory of karma” means with each deed an effect on mentality by conscious and subconscious effect of memory is generated which works to give behavioral changes for interaction at each level under the effect of force of consciousness thus effect of karma brings different disabilities, capabilities, strength, desire and powers to the creature by operations in mentalities but impacting factor of karma is intention behind the karma because till now we saw karma is either right or wrong which brings its effect but the effect of karma is brought by emotions involved in the karma therefore all what matters is feeling (named as intention) and effect of intention brings its effect as the fruit of karma. Intentions makes someone’s wrong as someone’s right and vice versa

**Effect of mentality on abilities and disabilities and process regulation of biological bodies:** Our biological system consists of two memories one is conscious and one is subconscious. Subconscious memory brings the effect of past to the present as per mentalities evolved. In this world something are good people tell us to do that some things are bad people say don’t do that but a child who don’t know what is right can do anything which is possible but with the period of time he/she comes to know “I have done a lot of things which are wrong and hides his/her feeling (coming to his), his this activity results into increase in deactivation for responding those memories, this decreases sensitiveness of brain, so ability of brain to regulate different phenomena in brain decreases. As plants and animal bodies are composed of very large number of microscopic units called cells and these cell contains a fluid and cell wall of cytoplasmic membrane allows passage to water and some selected materials like water, nutrients and the disposal of waste material in the form of dilute solutions under the effect of force of consciousness and as explained hormones and other fluids secreted by the effect of mentality by the effect of mentality is controlled by brain and with increasing or decreasing sensitiveness of brain with change in mentality, the ability of brain to mention the flow of fluids to different parts of the body increases and decrease respectively and due to the change in the availability of these solvent molecules in the cells it’s rupturing or shrinking takes place and due to their corresponding process concentration of the cell decrease or increases respectively we know concentration of cell can be written as

\[
\text{Concentration of cell} = \frac{\text{number of moles of solute particles in cell}}{\text{volume of cell}}
\]
With increasing concentration number of moles per unit volume increases therefore density of the cell increases, with increasing density phosphorescence and non-radiative transitions in phosphorescence increases because electrons in the solids has less movement and hence they come back to the ground state in steps therefore most of the energy of incident light on cells converts into heat therefore the frequency of released energy in the form of light decreases more therefore in that part of the darkness increases (just like leaves changes color from light green to dark green then to yellow then to orange and with further decrease in moisture, leave becomes reddish means fall in the frequency of emitted light by the cells of leaves due to changing chemical properties of cells by increasing density of cells) such phenomenal starts at elbows knees in the beginning but all these are effects of decrease in sensitiveness of brain, resulted due to decrease in fluid regulation capabilities of brain and becomes permanent if such mentality becomes permanent and animals having control on their mentality by defeating or inability to feel right or wrong uses this disability as an ability in which by controlling mentality they control the amount of solvent or solvent fraction in the cells of their skin by adjusting the flow of fluid in different parts of body thus become capable to adjust the effect of non-radiative transitions by controlling the density of cells of their skin therefore become capable in controlling the colors of their skin example is octopus. Therefore the powers of mentality provides abilities as well as disabilities to the creatures and to the extent to which control over mentality is gained to that extent control on body looks can be attained for example if you do good deeds according to your mentality it leads good feeling and under force of consciousness which directly effects all the processes in biological bodies gives corresponding secretions of chemicals which brings corresponding change in the look of body and corresponding change in the features of body like voice, way of sight etc. If we combine above two theories “Structural dependency of biological body on mental growth of biological body” and “Effect of mentality on abilities and disabilities and process regulation of biological bodies” then by studies we can come to know psychological aspects behind looks of different creatures as the mentalities through which corresponding change into looks can be built for example with increasing sensitivity of brain during the feeling of lust increases the reddish or pinkish colors with decreasing darkness of lips due to the change in the fluid presence in lips in some people and sometimes mentality effects curliness of hairs by the mentality of self-orientation. By formation of medicines or drugs which can bring change in mentality, through them change in the appearance of one’s look can be brought to the extent to which medicine is effective. Another factor that effects the looks of body parts are external factors like skin burn by sun effects the force of consciousness and brings the mentality so that skin burn by environment in which sun is also present could be prohibited by providing less amount of fluid in upper skin of the body and this change is accompanied by the effect of force or power of consciousness which changes the genetics of the biological bodies which is also abstracted by the next generation and all these processes brings new mentalities corresponding to the looks or vice versa because feeling felt due to environmental action brings a mentality which brings corresponding change in biological processes occurring inside the body thus brings corresponding structural changes which brings corresponding change in looks. We know with respect to the mentality flow of fluid changes and with respect to different feelings different hormonal secretion takes place thus brings new changes in the body and with the passage of time different creatures gains different information of surrounding and therefore different mentality builds which builds different looks of different creatures and with the passage of time data going to brain increases so understanding capabilities or thinking that “I understand” rises and with it calmness in brain rises it makes fall in aggression or responding capabilities with quick active response therefore activeness of brain decreases therefore it causes fall in active flow of fluid in different body parts like in skin present in lower region of eyes thus increases the volume of skin over there and fall in sensitivity with age causes the symptoms like wrinkles as with decreasing sensitiveness the ability of brain to maintain flow of fluid in different parts decreases thus looks of old age comes and with decreasing sensitiveness, activeness falls and with the failure in the activeness of heart death of biological body occurs and after death according to the effect of environment body disposes and changes because mentality just before the death of brain gives the final rigidity to different parts of the body as after death of brain no mentality works but with the death of body effect of consciousness of body does not dies it keeps traveling with respect to its desires and guilty free from the capabilities and limitations of body and sometimes under their effect different mentalities gets activated under various circumstances and with respect to mentality frequency of voice and behavior of person changes as change in behavior is accessed by zero spaces present in body which has infinite processing capabilities thus allows such changes.

**About Miracles:** If we specify some unique attributes of nature then these are time, space, matter, energy, intelligence, miracles. For convenient understanding we are considering intelligence acting as intermediate successor (as everything is reason for creation of everything and reason of everything) from first four attributes to miracles. As feelings has the property to affect and interact with the laws of physics, it indicates feelings affect changes in first four attributes, therefore intelligence can be considered as a feature of nature whose change affects other attributes of nature according to the feeling. In environment of a particular region, languages born with respect to the feeling felt by creature of specific region, environment of a place affects the mental growth and according to the mentality words for conversation evolve, therefore words have ability to affect the working of brain due to the feelings associated with the words. Every language is spoken with respect to the feeling felt by the speaker. As feelings has the property to affect and interact with the laws of physics, therefore intelligence can be considered as a feature of nature whose change affects other attributes of nature according to the feeling. I am considering some words of Sanskrit language to explain miracles to some extent. Sanskrit language is believed to be the best language for computer programming due to its systematic behavior. Its systematic behavior is due to the synchronization of
pronunciation of words with nature or pronunciation as per nature sound, for example while we pronounce the symbolic word AUM (ॐ) (AUM is strictly used at the beginning of approximately each mantra of Sanskrit language), while pronouncing AUM in correct way, one may feel that vibration first occurs at lower part of the neck, it denotes first alphabet of AUM, ADHO (अध्यो) (which signifies downward direction extending up to infinity) and then vibration goes above the neck it denotes the direction of URDHIYA (उर्ध्या) (which denotes upward direction extending up to infinity) and ends with emitting M (म) which is for MADHYA (मध्या) and it denotes the center of both the directions, the synchronization of vibrations associated with words in physical action hints that pronunciation of words of Sanskrit has a coding system that embed nature’s characteristics and activates the functioning of body to accomplish the effect of words under the force of consciousness, which causes the effect of feeling associated with the words. In Sanskrit there are three words TANTRA, MANTRA, YANTRA (तन्त्र-मन्त्र-यंत्र) for accompanying miraculous effects through three different ways. In Sanskrit miracle is named as CHAMATKAAR (चमकार), the sub word CHAM (चम) denotes sparkling denoting high energy levels while repetition of TRA (त्र) in all three words TANTRA, MANTRA, YANTRA and sub word T (त्र) in CHAMATKAAR denotes techniques of corresponding feature of nature means techniques of TAN (तन) its English translation is body, MAN (मन) its English translation is mind, YAN (यन) its English translation is instrument or machine having certain structure to give corresponding effect of requirement. The association of all these three techniques with CHAMATKAAR denotes work that involves high energy levels, work is indicated by the sub word (का) which denotes KAARYA (कार्य) its English translation is work, while operating or practicing such techniques a sudden spike in the energy levels of functioning bodies takes place via feelings associated in the force of consciousness, such techniques are found and used to achieve high energy levels and due to high energy levels $E_g$ associated with the feelings flow of time rises according to equation (68) and therefore creation capabilities increases or resisting force for an occurring process falls down, therefore processing speed rises just like velocity of moving particle in equation (78) rises as flow of time rises and need of energy supplied $E_g$ to achieve such processing speed decreases in same equation (as both are inversely proportional to each other).

Therefore due to the high level of energies association the transmittance, creation and processing capabilities rises and zero space has processing capabilities for every input (due to infinite capability to process everything (as it has the capability to do everything with infinite power)) the output of certain inputs in such practices causes the corresponding effect which is considered as miracle as understanding them requires huge amount of data and high processing capabilities which also require high level energy association to understand them thus in simple words named as CHAMATKAAR. A clear evidence of CHAMATKAAR can be seen in JHADA (झाडा) specifically used for curing the person bitten by dog. In this method person brings approximately 100 to 150 grams soil from KUMHAR (कुम्हार) (potter) on Sunday or Tuesday morning, soil must be touched with CHAAK (चाक) (on which utensils are made) at least once, then the person who treats, rolls the balls made by that soil on the portion where dog bitted the person and chants the mantra after this the soft wet ball is broken with the help of fingers and separates the hairs of dog from the soil and tells the patient the color of the dog. The instant coming of hairs of the same dog into the balls of soil which were not present in balls of soil before the mantras were chanted is CHAMATKAAR, that involves the physics of high level energy association where creation, transmittance, processing capabilities rises therefore it happens instantly.

Mantras are associated with MAN (मन), mind (it has infinite tendencies of extensions in the form of thoughts just like zero space creation capabilities characteristics), as association of MAN with TRA makes word MANTRA therefore represents the access technique of mind and to travel through this, the instrumental role is played by SAMAGRI (सामग्री) and the role of procedure is played by VIDHI VIDHAN (विधि विधान), as MANTRA is associated with mind, every language has capable of making miracle just high level energy association of mind is required which automatically takes place while pronouncing the mantra by the act of action and reaction, for example the mantra chanted by my mother in above miracle is in BHOPURI (भोजपुरी) language. Different cultures uses different ways to achieve a miraculous effect but procedures of VIDHI VIDHAN like in above miracle specific conditions like particular days (Sunday or Tuesday) specific time period (morning) and conditions of touch between soil and CHAAK makes it quite complex to understand scientifically but hints are hidden in intelligence capabilities of everyone and its research can reduce difference between technology and miracles for example the astrological use of silver ornament is to bring calmness in the nature of wearer because scientifically silver metal has highest conductivity therefore readily conducts any rise in energies associated with the feelings like anger, aggressiveness etc. from the body to the surrounding, therefore keeps the wearer in calm nature, it hints each element and corresponding material of elements has its own effect in bringing the variation in force of consciousness thus brings different mental effects which brings corresponding effect in deeds of the wearer therefore effects the future of wearer by the theory of karma in this way science of miracles can vanish the difference between reality and superstitious thoughts and will bring better results by combining science and miracles.

VISHIVAS (विश्वस) whose English translation is trust is neutral (far from positive and negative) thus reaches the zero space characteristics, which indicates highest flow of time and high energy levels thus acquires the miraculous properties, thus capable of directly making miracles and believe simply enhance the trust for causing miracles.
Miraculous states: In reality work is said to be done when we overcome friction. Friction is such a thing that works when an opposing force acts, as much the opposing force that much friction force acts and that much energy is provided to overcome the friction and to give rest to the machine sufficient time is provided to machine. Human body works similarly, in human body feelings plays important role, when person do work which he doesn’t like opposing force is more while a person who is not doing the work he doesn’t like the opposing force is less (high flow of time) therefore less friction therefore less energy consumption as well as due to less friction rate of processing increases and time required to rest decreases, this strategy is followed by all machines which includes all living things as well as humans, therefore some living things which appears to do more work sleeps less and vice versa, and the state in which friction keeps reducing towards zero, the requirement of food for energy and sleep for rest is required to give the body time to regain enough energy to work further against friction in the body. The physics of sleep tells so many things for example when a person sleeps he enters into the state where friction in thoughts decreases because energy gained $E_g$ by the body by food is utilized by brain to greater extent than the brain of the awakening person (as energy divides to do the work of body parts as well as brain) therefore need to supply energy $E_s$ to brain for rising flow of time decreases therefore energy plays its role to rises the flow of time in brain and thus processing capability of brain rises, this rise in processing capabilities increases the powers of brain like calculative capability, imaginative capability etc., that is why a sleeping brain is capable to calculate and providing the own psychological nature like voice or features to peoples, living things or nonliving things coming into the dreams and as brain is in the state of high energy levels means in the state of less friction the people in dream comes in the psychological state having less friction in their own thoughts (means their actual nature), the rise in capability of brain is the function of flow of time in the brain which depends upon energy obtained by the brain which decreases as body works against the friction in the body and friction decreases when one don’t do the things which his/her mind opposes to do or do the things which he wants to do, therefore the symptoms of such living things are

1. They have high creation capabilities.
2. They think fast due to high processing capability of brain.
3. They require less food to survive but eat the things they like as they are on the path of doing the things they like.
4. They require less sleeping time for rest and while sleeping they become aware of the incidents happening in their surroundings to the extent to which the rise in processing capability is achieved.

As brain’s creation capabilities depends upon its energy levels sometimes energies associated with certain force of consciousness effects the energy levels of brain such that their high energy association and rise in creation capability start shifting the mentalities of the person and in such state due to high energy association with brain the energy supply $E_s$ required by brain to do something becomes less therefore sometimes in split personality disorder and in some another states patients does the things which is beyond the normal human capabilities but this effect is not always destructive, some people uses the same phenomena for doing the work having constructive and positive effects under the effect of force of consciousness which are considered as positive energies, by the creation and calculative capabilities raised by their energies gives the capabilities to the bodies like giving blessings, capability to see beyond the present time etc., in such phenomena’s generally a rider named as Sawari (सवारी) in many Indian cultures gets control of the body in which they become active, some riders has positive characters as per someone believes and some riders has negative characteristics as per some another one’s believes but the thing common is they enhance the capabilities of humans by their effect and the people who consciously attains such states also attains enhancement in their capabilities consciously.

Conclusions:

1) Inside each particle there is a source of power with capability to give infinite characteristics, which never vanishes due to the physics of zero space and makes a particle to continually provide the properties of force like charge mass and emotions etc.
2) The power of this source is combination of zero and infinity (infinite tendency for creation of zero space) and this source of power whose origin is zero but tendency for creation is infinite can be used for getting power with zero input for the time tending to infinity.

Above theory is for special case and for the sake of simplicity however in actual world the things can be explained by considering three dimensional co-ordinate geometry and allowing the particles free to move

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Theory: To understand the concept consider two spherical particles $P'_1$ and $P'_2$ of radius $r_1$ and $r_2$ respectively, if these particles obey the inverse square law of force, then these particles start moving with acceleration $a$ with respect to each other. Now let an instant of time $t_{in}$ at which the position of particle $P'_1$ is at observer $O_1$ which is at the origin of a three-dimensional coordinate geometry and position of particle $P'_2$ is at observer $O_2$ and at these positions, the distance and appearing acceleration between these particles be $r$ and $a_{ap}$ respectively, if both particles are going towards each other then at considered instant the relative velocity between the both particles becomes

$$a_{ap} = a_1 + a_2 \quad \ldots (0.1)$$

Here $a_1$ and $a_2$ are accelerations of particle $P'_1$ and $P'_2$ respectively.

From now the terms with subscript 1 and 2 will denote the magnitude of considered term used for particle $P'_1$ and $P'_2$ respectively.

$a_1$ And $a_2$ can be written as

$$a_1 = \frac{v_1}{t_1}$$

And

$$a_2 = \frac{v_2}{t_2}$$

For same period of time $t$ in which particle $P'_1$ and $P'_2$ are displaced to $x_1$ and $x_2$ respectively on $x$ axis

$$t = t_1 = t_2$$

Therefore with respect to the direction relation between the two particles

$$v_1 = \frac{x_1 \cos \alpha_1}{t} \quad \ldots (0.2)$$

The term $\cos \alpha$ is used to give direction details of moving particle (for example for $\alpha_1 = 0^\circ$, $\cos \alpha_1$ becomes one and it denotes linear increase in the velocity of particle $P'_1$ with increase in the coordinates of $x$ axis towards particle $P'_2$), therefore $\alpha$ denotes angle between motion of particle and positive direction of $x$ axis or we can say $\alpha$ denotes the angle that line of motion of particles makes with positive $x$ axis with respect to particle $P'_2$ and its value can be written as

$$\cos \alpha_1 = \frac{x_1}{r}$$

Here

$$r = \sqrt{x_1^2 + y_1^2 + z_1^2}$$

Similarly

$$v_2 = \frac{x_2 \cos \alpha_3}{t} \quad \ldots (0.3)$$

As velocity of field particle of fields (like electrostatic field or gravitational field) emitted by a particle travels with the velocity of light therefore after instant $t_{in}$ as particle $P'_1$ is moving towards particle $P'_2$, the appearing velocity $v_{f_{i_2}}$ of field particle emitted by particle $P'_1$ at angle $\alpha_{f_{i_1}}$ with respect to direction which straightly goes to particle $P'_2$ will be

$$v_{f_{i_2}} = c \cos \alpha_{f_{i_1}} + v_1 \quad \ldots (0.4)$$

Here sequence of subscript tells quantity of field particle of particle $P'_1$ at angle $\alpha_i$.
Here $c$ is the velocity with which field particle emitted by $P_1'$ travels.

Explanation of (1): Here $c + v_1 \cos \alpha_{f_1}$ doesn’t mean that velocity of field particle will exceed the limit of $c$ with respect to its source, this is the resultant velocity of field particle due to the motion of particle $P_1'$.

Similarly

$$v_{f_2} = c \cos \alpha_{f_2} + v_2 \ldots (0.5)$$

As per situation the relative velocity between the field particles emitted by both particles will increase when there will be negative sign between the velocity of both particles and vice-versa therefore

$$v_{f_1} - v_{f_2} = (c \cos \alpha_{f_1} + v_1) - (c \cos \alpha_{f_2} + v_2)$$

$$v_{f_{ap}} = c(\cos \alpha_{f_1} - \cos \alpha_{f_2}) + v_1 - v_2$$

$$v_{f_{ap}} = c(\cos \alpha_{f_1} - \cos \alpha_{f_2}) + v_{ap}$$

Therefore time dilation in real situation will be written as

$$\Delta t = \Delta t_a \cdot \frac{v_{f_{ap}}}{v_{f_{ap}} + v_{ap}}$$

Let

$$\frac{v_{f_{ap}}}{v_{f_{ap}} + v_{ap}} = \xi$$

Therefore the terms used in $T_d$ and the value of $T_d$ indicates the values of those terms which are varying in the same way as $\Delta t$ varies can be written as

$$T_d = T_a \cdot \xi$$

And

$$P_{ap} = P_a \cdot \xi'$$

Here

$$\xi' = [\xi]^{-1}$$

By using right sign conventions in this method $I_f$ attains negative sign it just means that acceleration is acting between two bodies such that process of motion of particles is occurring by itself therefore represents the direction reverse to the direction of time which made the birth of universe but its span tells the magnitude of running time, it is just like revolution of sun appears to be clockwise thus tells span of time but actually we are revolving in anticlockwise direction whose motion represents reverse to the direction of time which causes birth of universe just like formation of black hole by itself is considered to be the reverse of birth of universe but span of its formation tells the magnitude of running time.

**An interesting fact:** We know value of acceleration due to a particular body is at its peak at the surface of a body therefore flow of time is slowest at the surface of the particular body where we live means surface of earth and our body itself causes friction to the flow of time due to the force exerted by the particles of our body therefore in the region of infinite flow of time our body if survives will itself resist our running age and the only region having infinite flow of time is zero space which denotes the region having no volume so entering into it with the body having volume is a question but accessing it through intelligence by forces of emotions due to its infinite tendency of absorbing every input coming to it and processing it with infinite speed then emitting the response due to infinite tendency for creation gives capabilities to see beyond the present time as explained in section “Miraculous states” and is seen when predictions comes true and if one enters into the zero space by a phenomena then due to the characteristic of infinite flow of time and infinite tendency for creation one may go into any past as well as any future by creating it in its
present therefore zero space is the most powerful wormhole and entering into it gives liberation from limitations, in Bhagawad Gita this state is referred by MOKSHA (मोक्ष).

REFERENCE


Acknowledgement

Graphs, drawings and some of the typing work were made by “JEET INFOTECH”. The knowledge that gravitational force is neutral like love of mother which always attracts her child independent whether child is girl or a boy was given by my dear friend Brajesh Kumar. Information that presence of wormhole is present at the centre of particle was given by my Chouhan uncle his words were “बेटा धरती के बीचो-बीच होता है”. And the idea that it is anti-verse and will get disappear as it will get SANTULIT was given by a girl in my dream.

The truth that no one is SAMPOORNA was told by my uncle Mr. Raajkumaar. While the story of AADI SHAKTI, I came to know while conversation with Prakash Khunte while both of us were high.

I am greatly thankful to my college dean Er. Baldev Singh, who motivated me and tried his best to help me. And in the last the most important figure Er. Vishal Anand, who suggested me to not study in bus which eventually let me to think about the known concepts of physics and grow new concepts of physics. Source of pictures and sketches is google.