

Introduction to Universal Law to Provide Reasons for the Birth and Working of the Universe

Akshay Vijay Gaikwad

Abstract: *The universe is governed by one Universal Law that holds true in all circumstances and in all parts of it. This Universal Law is the reason for the presence of gravitational forces, the expansion of the universe, the existence of Black holes, the existence of forces in nature, Etc. The Universal Law can be used as the basis for reasoning for the entire unanswered phenomenon in space. However, this paper is for explaining and deriving this universal law and its implications on the working of the universe. I am not from a scientific background and hence it is very difficult for me to explain the whole idea of this law by substituting it in every natural phenomenon. However, I feel it is more important for me to introduce this law, and its basic implications so that further research is possible.*

Keywords: *Theory of Everything, Gravity, Dark Matter & Dark Energy, Mass Energy Equivalence, Expanding Universe, Special & General Relativity, Big Bang Theory*

I. INTRODUCTION

The theory of everything if proven correct will no longer be a theory but would become a law. This article introduces a law that stands true in all circumstances and all aspects of our universe from quantum to cosmos and hence is truly a universal law.

The discovery of universal law will explain below mentioned phenomena wherein we do not have a complete understanding.

- A. Space
- B. Matter
- C. Gravitational Force
- D. Black Holes
- E. Dark Matter
- F. Dark Energy

It will also make it easier to research and find reasons for other unknown phenomena by applying the universal law like below.

- A. Quantum Entanglement
- B. Weak Force
- C. Strong Force
- D. Electromagnetic Force
- E. Light Particle or Wave
- F. Life and Working of the Brain

This article is in layman's language as I am not from a

scientific background and am unaware of any terms that already might be used for certain phenomena.

II. KNOWN LAWS AND CONCEPTS

The below-known laws of physics are the only ones I will be using to derive the universal law.

A. Newton's Law of Universal Gravitation

Newton's law of universal gravitation states that every particle attracts every other particle in the universe with a force that is proportional to the product of their masses and inversely proportional to the square of the distance between their centers [1].

B. Newton's Third Law of Motion

Every action has an equal and opposite reaction [2].

C. Newton's First Law of Motion

An object will remain at rest or in motion at a constant velocity unless acted upon by an external unbalanced force [3].

D. Law of Conservation of Energy

Energy cannot be created nor destroyed only converted from one form to another [4].

E. Kinetic Energy

Kinetic energy is the energy an object has due to its motion. It's directly proportional to the object's mass and the square of its velocity [5].

$$K.E = \frac{1}{2} M V^2$$

F. Mass Energy Equivalence

$$E = MC^2 [6].$$

G. Speed of Light in Vacuum

$$C = 299,792,458 \text{ m/s [7].}$$

H. Black Holes

Light does not escape black holes [8].

I. Process of Accretion

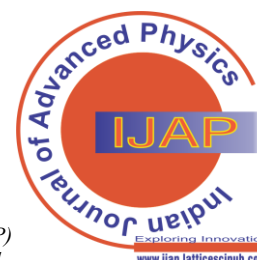
Accretion is the process by which small particles of dust, gas, and ice stick together to form larger objects [9].

III. SYSTEMS IN THE COSMOS

To understand the universal law, I have categorized bodies in the cosmos as per their hierarchy and position in the gravitational fields, these categories are based on the type of matter and the Space-time fabric collective with its gravitational parent [10].

A. Quantum System

This system comprises atoms with the nucleus at the



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center, multiple electrons bonded in an orbit around the center, and the Space-time fabric warping them all until such a distance that the electrons stay locked in an orbit of the nucleus [11].

Quantum systems are most primary systems as they in turn bond with one another to form matter which warps Space-time fabric to produce gravitational force [12].

B. Planetary System

This system comprises various quantum systems bonded together forming a larger body, all bodies locked in an orbit due to the gravitational force of the central body and the Space-time fabric warping them, until such a distance that the gravitational force exerted by the mass of the centrally located body is effective.

This can be explained by an example of our planet where multiple quantum systems bonded together form elements and compounds together forming a large body such as Earth. Our planet due to its total mass warps Space-time fabric producing its own gravitational force bonding satellite (moon) in orbit.

Thus, the planetary system of our planet will include the matter of the planet at the center, the atmosphere of gases around it, the satellite moon revolving in an orbit, and the space-time fabric between all these bodies until such a distance where the gravitational force of Earth is effective.

C. Solar System

This system comprises a star at the center, multiple planetary systems revolving around the center, and the Space-time fabric warping them all; until such a distance that the gravitational force of the centrally located star is effective.

D. Galactic System

This system comprises a black hole at the center (see section 10), multiple solar systems revolving around the center, and the Space-time fabric warping them all until such a distance that the gravitational force of the centrally located black hole is effective.

E. Universal System

This system comprises a black hole at the center (See section 7), multiple galactic systems revolving around the center, multiple galactic systems accelerating away from the center, and the space-time fabric warping them all, until such a distance that the gravitational force of the centrally located black hole is effective. The universal system is the ultimate system which does not have any parent holding it in orbit or bonded to its surface like other systems.

F. Manmade Systems

Man-made systems are systems made by man that are made of matter and can be in motion. These systems comprise the matter constructed by man, the space-time fabric trapped within it and the space-time fabric until which it will exert a gravitational force towards other bodies entering its gravitational field.

IV. SPACE-TIME FABRIC

Space-time is a 3-dimensional fabric with no constituents or basic building particles.

This fabric is infinitely spread in the cosmos and has categories as per its hierarchy in the gravitational fields of systems observed in the cosmos.

To understand Space-time fabric, consider our planetary system having its Space-time fabric bonded in an orbit around the sun. Thus, the space-time fabric in the planetary system revolves around the sun, and the larger Space-time fabric of the solar system in turn revolves around the center of the Galaxy.

This means that the Space-time fabric of the planetary system is trapped around the planet until the gravitational field of the planet exists.

Consider the Space-time fabric of the entire cosmos to be 1 infinitely spread 3-dimensional fabric that gets interrupted by the presence of our universe.

Let us name this infinitely spread Space-time fabric as the Ultimate space-time fabric.

The Ultimate Space-time fabric gets interrupted by the presence of our universe within itself and a new Space-time fabric of our Universe is born, let us name this Space-time fabric of our universe as Universal Space-Time Fabric.

Further, the space-time fabric of our universe gets interrupted by the presence of galaxies, and a new level of space-time fabric is born which is trapped inside the Galaxies, let us name this Space-time fabric as Galactic Space-time fabric.

Similarly, the space-time fabric of galaxies is interrupted by the solar systems by which a new level of space-time fabric is born, let us name this space-time fabric as Solar Space-time fabric.

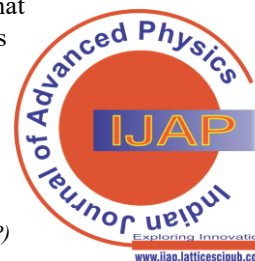
Furthermore, the Space-time fabric of Solar systems is interrupted by Planetary systems which gives birth to another level of Space-time fabric, let us name this new level of space-time fabric as Planetary Space-Time Fabric.

This breaking down of space-time fabric into smaller systems continues to a quantum level also and the planetary Space-time fabric gets interrupted by the Space-time fabric trapped within the atoms of various matter and cells of various living organisms, let us name this space-time fabric which gets trapped within atomic and cellular systems as Quantum Space-Time fabric.

The Planetary Space-time fabric gets interrupted by manmade systems also wherein any object built by humans interrupts the Planetary Space-time fabric to trap another level of Space-time fabric, let us name this space-time fabric as Manmade Space-Time fabric.

Consider Man-made space-time fabric with an example of a moving vehicle. When a vehicle is in motion the air inside the cabin forms the Space-time fabric of the vehicle's system, this Space-time fabric is in motion with the velocity of the vehicle and is born from the same Space-time fabric of the planetary system of Earth by disintegrating the Space-time fabric of earth into smaller system. All objects inside the vehicle will move with the same velocity as the vehicle. As the vehicle comes to rest the Space-time fabric created by the motion of the vehicle merges with the Space-time of Earth.

From this, we can identify that the Space-time fabric gets disintegrated into smaller systems when the smaller systems are in motion.



This phenomenon means that the Planetary Space-time fabric is born by the virtue of motion of our planet within the Solar Space-time fabric. In case the planet comes to rest the Planetary Space-time fabric will remerge with the Solar space-time fabric.

Similarly, The Planetary, Quantum, Manmade, Solar, Galactic, and Universal Space-Time fabrics are in existence by virtue of the motion of that system in which the specific space-time fabric is trapped.

The above phenomenon proves that the Ultimate space-time fabric is an infinite system with our Universe being a finite system within it and our Universe is in motion.

V. MOTION AND VELOCITY

From systems in cosmos and space-time fabric, we understand that the ultimate space-time fabric is infinitely spread 3-dimensional fabric which gets disintegrated when the universal system is born and has a motion. All matter inside the universal space will continue in motion with the complete Universal system.

Thus, it can be proved that the Ultimate Space-time fabric is infinite, and the universal system is a finite system within the Ultimate Space-time fabric which is in motion. From the definition of the universal system, there is no other body outside the universal system to exert an unbalanced force on the complete system hence we can say that universal system is continuing in uniform linear motion by applying Newton's first law of motion.

Let's call this velocity of the universal system as ultimate velocity.

VI. GRAVITATIONAL FORCE

Definition: Gravity can be defined as the force produced by space-time fabric on all systems due to its tendency to maintain its original form of one single 3-dimensional fabric when matter disintegrates it by its ultimate velocity.

The ultimate space-time fabric beyond the gravitational force effects of the universal system has a tendency to maintain its 3-dimensional uninterrupted form hence when the universal system achieves motion it disintegrates the Ultimate space-time fabric and Universal space-time fabric is born which gets trapped inside the Universal system.

Universal system continues in its linear motion causing the ultimate space to warp and remerge with itself, this continuous event of spreading Ultimate space-time fabric and re-merging with itself happens in the cosmos.

The Ultimate space-time fabric has 1 tendency to maintain its 3-dimensional free form which produces a force to act towards the center of the Universal system, The Universal Space-Time fabric which is trapped inside the Universal system also tends to remerge with Ultimate space-time fabric which in turn produces a force to attract all matter towards each other.

The higher the velocity of the system in Ultimate space-time fabric higher the force produced.

This force produced by Space-time fabric by the virtue of the motion of systems of matter to maintain its 1 single 3-dimensional free form is called gravitational force.

VII. BLACK HOLES

The universal systems are the primary systems that have disintegrated Ultimate Space-time fabric and are continuing in uniform linear motion. The motion of the universe gives birth to universal space-time fabric which tends to reunite with ultimate space.

Now, if the universal Space-time fabric is torn or has a gap, this region will act like a hole and all matter that enters this region will not continue ahead in the uniform linear motion of the Universe, rather will be left behind.

Such a hole in the universal system where the universal space-time fabric is torn or has a defect is called a black hole.

It has been observed that any matter entering a black hole cannot be detected and no light escapes the black hole. This phenomenon means that all matter entering a black hole is left behind and the universal system continues in its linear motion at a velocity higher than the speed of light hence light does not escape black holes.

Black holes are defects in Space-time fabric where the matter does not continue in motion of that system and are left behind at a velocity equal to the velocity of the system in its parent space-time fabric.

Space-time fabric trapped in any system has two ways of reuniting with its parent system to re-merge and become one namely, by remerging in the black hole and by remerging outside the gravitational field of the system itself.

The structure and shape of our universe if imagined with the above notion is like a doughnut wherein the center is a black hole where the gravitational field of the space-time fabric is trapped within the system and is continuously trying to re-merge with ultimate space. Thus, the doughnut-shaped universal system which is in linear motion with ultimate velocity has space flowing through the center and its edges causing an effect like how a submarine moving inside of water with a hole in its center would warp water around it by the virtue of its motion.

VIII. UNIVERSAL LAW

The universal law is the sole reason for the formation of universes, galaxies, solar systems, and all other systems in our cosmos, this universal law is the missing link between all known laws and the behavior of matter in Space-time.

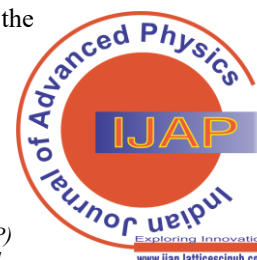
Every matter or a group of matter continues in a state of uniform motion in a straight line with an Ultimate velocity unless it is acted upon by an external unbalanced force.

Thus, from universal law, we can conclude that every matter or a system of matter has a common tendency to achieve its ultimate velocity.

IX. MATTER AND ENERGY

Universal systems are in a state of uniform motion with a velocity that is higher than the speed of light. Hence universal system will have kinetic energy possessed by them.

The universal system is already in a state of uniform motion with ultimate velocity hence all the forces exerted by the ultimate space-time fabric on the universal system and the opposite forces produced by the space trapped inside the universal system are in



equilibrium. This is the reason for no net effect and the universal system stays in uniform linear motion.

If we consider galactic systems, these are in one of three states, either bound in an orbit to the central black hole of the universal system, or they enter the black hole and reunite with the ultimate space-time fabric, or they are accelerating from the center in a pursuit to achieve ultimate velocity and balance their energies.

The energy possessed by Galactic systems to accelerate and attain their ultimate velocity is called dark energy.

If we consider the space-time fabric trapped inside of the galactic systems, it will have energy to reunite with the universal space and this energy will tend to zero as the galactic systems accelerate to attain ultimate velocity.

This explains the acceleration of galaxies in our universe by virtue of dark energy possessed by the Galactic space-time fabric. The dark energy tends to zero with an increase in velocity and increases when the velocity reduces, thus when dark energy is constant it gives rise to the formation of matter which is a form of storage of dark energy.

The energy stored within the matter or systems of matter to attain its ultimate velocity is called rest energy.

This means that energy within matter and dark energy of any Galactic system turns zero when ultimate velocity is achieved by the system and vice versa the dark energy and matter start increasing when the galactic system velocity is constant in an orbit or reducing relative to the universal space.

From the law of conservation of energy we can conclude that the kinetic energy possessed by universal system is the sum of rest energy and dark energy of that system.

The above can be mathematically denoted as

$$K.E = E + D.E \quad \dots (1)$$

Where,

K.E	=	Kinetic Energy
E	=	Rest Energy
D.E	=	Dark Energy

Rest Energy can be mathematically denoted as:

$$E = mC^2 \quad \dots (2)$$

Where,

E	=	Rest Energy of Matter
m	=	Mass of the Matter
C	=	Speed of Light in Vacuum.

Kinetic Energy can be mathematically denoted as:

$$K.E = \frac{1}{2} m V^2 \quad \dots (3)$$

K.E	=	Kinetic Energy of the Primary System
m	=	Mass of Primary System
V	=	Velocity of the Primary System Relative to space.

Solving the above equations:

$$\frac{1}{2} mV^2 = D.E + mC^2 \quad \dots (4)$$

Now, for universal systems, the ultimate velocity is already achieved hence the dark energy possessed by the universal space is zero.

$$\frac{1}{2} mV^2 = 0 + mC^2 \quad \dots (5)$$

That is,

$$V^2 = 2C^2 \quad \dots (6)$$

Substituting the value of C

$$V = 423970560 \text{ m/s} \quad \dots (7)$$

$$E = mC^2$$

The ultimate velocity of our universal system is 423970560 m/s

X. FORMATION OF THE UNIVERSE

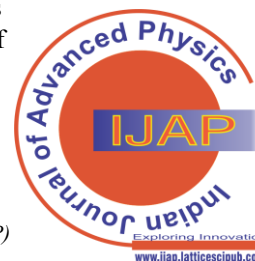
Universal law is the sole reason for the accretion and formation of matter within any system.

Imagine our universe in straight-line motion with the ultimate velocity with a supermassive black hole at its center. Gravitational force will be produced on any matter that interrupts the space of our universe, and this matter would be bonded to each other either in orbit or bonded to the surface or would escape to continue in linear motion. Some systems that escape the gravitational field of the central black hole of our universe will keep accelerating to achieve their ultimate velocity. These systems in early life are unstable and will have massive super Nova releasing energy from matter causing a defect in their trapped space and giving birth to a black hole. As these systems keep accelerating, they form into a stable system which forms a galaxy that might be in orbit and uniform velocity or accelerating state. In both cases, the galaxies have immense dark energy to attain their ultimate velocity. This dark energy keeps reducing in the galaxies which are accelerating, and the dark energy keeps converting to matter in the galaxies which are in stable uniform orbits.

Eventually when a galaxy exits the gravitational field of the universe and attains its ultimate velocity the dark energy turns zero, a huge explosion takes place releasing all the energies within the galaxy and as there is nothing outside of the universe to exert unbalanced force on this newly exited galaxy it in turn continues with uniform motion of its newly acquired ultimate velocity forming a new universe with a black hole in the center. The same accretion process continues with galaxies, solar, and planetary systems forming inside it by the motion of various matter inside of the space trapped in the newly formed universal system [9].

This is continuously happening in the cosmos where new galaxies exit our universe and form their own universes with a new ultimate velocity. Our universe has a unique direction and high velocity hence the newly formed universal systems from our universe will never collide and will have their own direction and ultimate velocity.

This phenomenon of continuously forming new universal systems from galactic systems proves the existence of multiple universes. When the galactic systems exit the universal system their dark



energy turns zero however they have a velocity that is slightly higher than the ultimate velocity which causes the entire mass of the matter in the galaxy to explode, this explosion gives birth to a black hole and cloud of quantum systems emerge and lock the space between them causing the ultimate space to warp and discontinue again thus the process of creation of further systems start again within the newly formed universal system.

XI. QUANTUM SYSTEMS

Quantum systems are basic building blocks of matter, and they are on a very small scale, their scale does not allow any other systems space to have any effect on them other than the universal space. The behaviour on the quantum level is directly related to matter and bodies directly under the influence of universal space hence their behaviors is very different to the other known bodies in the observable universe.

Quantum systems need to be further researched based on universal law to define and understand their behavior. However, they too will be bound by the universal law and will possess energy to attain their ultimate velocity.

XII. IMPLICATIONS OF UNIVERSAL LAW

Universal law, that is the motion of bodies is the sole reason for gravitational force, dark energy, black holes, etc. to exist in the cosmos. The first universe ever formed would be due to a particle attaining some motion and disrupting the infinitely spread Space-time fabric to break down into a universal system.

This first-ever particle attained motion and the reasons for the same are impossible to be researched and discovered.

The implications of universal law are as below:

- A. Every matter or system including manmade systems can move with a velocity slightly lower than ultimate velocity as it is their natural tendency to achieve ultimate velocity, however, once ultimate velocity is achieved the dark energy and kinetic energy are in equilibrium, and the matter will convert to energy in a form of a huge explosion.
- B. Research can be undertaken to identify ways to unleash this dark energy that is possessed by every system of matter to attain high velocities to travel our cosmos or to release infinite energy which is needed by mankind for various purposes.
- C. Research can be undertaken to understand the effects of universal law on living organisms to understand life, death, and the working of the heart and brain, I believe the space warping the living cells is the reason for life, death, and aging.

XIII. CONCLUSION

To Summarise the complete universal law and workings of the universe.

- A. All Matter and Their Spaces Can be Categorized Into Systems
 - i. Quantum System
 - ii. Planetary System

- iii. Solar System
- iv. Galactic System
- v. Universal System
- vi. Manmade System.

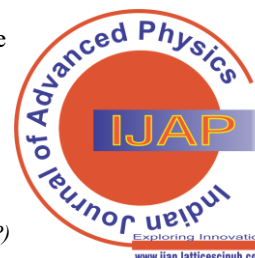
- B. Universal Law: Every matter or a group of matter continues in a state of uniform motion in a straight line with an Ultimate velocity unless it is acted upon by an external unbalanced force.
- C. Universal systems continue in linear uniform motion with an ultimate velocity of value: $V = 423970560$ m/s
- D. Due to this high velocity of the universal system ultimate space-time fabric gets disintegrated and breaks down to universal space-time fabric.
- E. All matter within the Universal space-time fabric is in motion and further disintegrates the universal space-time fabric into the specific space-time fabric of that system.
- F. The disintegration of space and release of energies from matter causes explosions which form defects in space giving birth to black holes.
- G. Black holes are primary bodies that trap matter in orbit or leave it behind when the system continues with its motion.
- H. Galactic systems when escape the gravitational field of the black hole at the center of the universal system start accelerating until they escape universal systems boundaries and attain their ultimate velocity.
- I. The sole reason for the creation of the universe is motion, when anything achieves motion, it warps space and starts the process of accretion [9].
- J. Every new universe formed has a higher ultimate velocity than the parent universe.
- K. The first universe ever born started with a particle/gas attaining motion, this needs to be researched as to how, when, and why the ultimate Space-time fabric got disrupted and a particle achieved motion.
- L. Every matter in our universe has a cosmic tendency to achieve ultimate velocity and dissolve with higher space-time fabric.

The above ideas are put forth by myself through thought experiments and logical thinking, I do not have any formal education in astrophysics and urge the scientific community to use this universal law for scientific growth and making our race the most advanced race in the whole of cosmos including all the multiple universes ever formed.

DECLARATION STATEMENT

I must verify the accuracy of the following information as the article's author.

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AUTHOR'S PROFILE



Akshay Vijay Gaikwad, started his career in South Africa as a Project manager and a product designer in the field of plant engineering in the year 2013 within 5 years in 2017 he founded IASF Technologies based in Johannesburg, South Africa. Under his leadership, IASF technologies have completed various projects worth more than 4.1 million USD in just 6 years. This achievement has been possible due to the hands-on approach to every client's requirement and by producing the most efficient solution to all our client's problems in their plant facility. Be it compliance or efficiency, the plants designed by Akshay are always custom-designed to the exact requirements of the client and not just copied and pasted from previous projects. A new chapter of IASF technologies began in December 2023 based in Pune, India to be able to provide the best value for money plants to the rest of the world and local Indian market. Akshay always has been curious about astronomy and the working of the universe and had an insight in 2014 about the same, however, due to his busy schedule and priority being to put food on the table it took him 10 years to write this paper with his idea of working of the universe which will change the complete scientific communities' approach to astronomy.

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