

[A New Approach to the Definitions and Relations of the Concepts of Mathematics, Eternity, Infinity, Death, Time and The First Point](#)

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Abstract: Mathematics is like a habitat in which all the branches of science flourish. Mathematical Science: Creates the denominator of the Science Cluster. Other branches of science form the shares of the Science Cluster. The Sum of shares and denominator: represents The Cluster of Science. Mathematical knowledge is like the heart of science. Science without mathematics cannot work [1], [2] .

In This Presentation, firstly, the position and definition of mathematics in science will be done. The original definitions of eternity, infinity, death, time and first point concepts and their relations will be given. Later, these concepts will be related to [the Big Bang Theory](#) and [the Big Rip Theory](#) [2].

[Before the The Planck time](#) (10^{-43} seconds) [from the Beginning of Big Bang Theory](#): the [occurrence of time, space, speed and gravitational dimensions will be mathematically related](#) [3], [4],

[Information about the starting point of the universe will be given.](#)

[Mathematical explanations of 4 basic forces in the universe will be done.](#) There are 4 conventionally accepted fundamental interactions: gravitational, electromagnetic force, strong nuclear force and weak nuclear force. [3].

As a result, the concepts of Eternity, Infinity, Death, Time, and [First Point in mathematics will match the equivalents in the universe.](#)

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Keywords: Eternity, Infinity, Death, Time, The First Point

Introduction

Mathematical Science: Mathematics is like a habitat in which all the branches of science flourish. Mathematical Science: [Creates the denominator of the Science Cluster](#). Other branches of science form the shares of the Science Cluster. The Sum of shares and denominator: represents The Cluster of Science. Mathematical knowledge is like the heart of science. Science without mathematics cannot work [1], [2]

In the wisdom pool, Mathematic is the structure of all energy status and creatures (intellectual, digital, virtual, objective, semi-virtual ... etc) and real relations, with symbols, numbers, equations and clusters.

The definitions of mathematics and science have misconceptions and shortcomings. Expression of science by means of equations, symbols, sets, figures, pictures, etc. is called mathematics. Accordingly, mathematics is not a subdivision of science, but it is like a science interface. With this logic and reasoning movement; the sum of other branches of science outside mathematics refers to the interface of cultural alphabets and experience. In this case (all science branches except mathematics): the cultural and life interface of science can be tried. The evolutionary interface of science expresses the real life story of all the changes in science. The evolutionary interface refers to the changing science depending on natural and social conditions. With this logic, science has three interfaces. 1. Mathematical interface, 2. Natural, cultural and life interface, 3. Evolutionary (change) interface.

Infinite ($t \neq 0, +\infty, -\infty, |\infty|$): It is a concept that reaches incalculable dimensions based on human possibilities. Georg Cantor has given many ideas about endless and infinite sets of clusters. In the theory that they develop, there are endless clusters in different dimensions. For example, a set of integers can be counted infinite, The set of real numbers can not be counted infinite.- Every infinite; It is in a restricted or unbounded set. In today's mathematics, the definition and position of this concept is lacking. Acting from this assumption; Every infinite; It is in a restricted or unbounded set.

The world's two-dimensional surface is final, but there is no limit. If you go along a straight line, it will eventually return to its starting point. The universe, at least in principle, can have a similar topology of this type. If so, somebody going on a straight line through the universe will eventually return to the starting point. On the other hand, if the universe has a flat topology instead of leaning like a sphere, it can be both unlimited and infinite. The curvature of the universe is measured by multipolar moments in the cosmic background. Radiation analyzes recorded by the WMAP spacecraft show that the universe has a flat topology. [The idea of eternity extends to the multiple universe hypothesis, which is explained by astrophysicist Michio Kaku.](#)

Eternity ($t \leq -\infty, t \geq \infty$): Eternal is immortal. Eternity is immortal clusters. Speed is bigger than infinity. Speed is eternity. Eternity should not be confused with the notion of infinity. It is called eternity to the real infinity, the life line, that is not influenced by the formation and

destruction of the universe, but before and after the destruction, which goes from the plus and minus directions to eternity.

Time Dimension: The time dimension is like the lifetime counter of transient life. Time is an adherence to transient life cycles. As speed increases, time shrinks approaching zero. For example, some meaningful results are interesting when we place the infinite and zero numbers in time in $E = M \cdot [L (\text{Space}) / T (\text{Time})]^2$.

$$E (\text{Energy}) = M (\text{Mass}) \cdot C^2 (\text{Light Speed})$$

$$E = M \cdot [L (\text{Space}) / T (\text{Time})]^2$$

$$E = M [L / +\infty, -\infty, \infty \geq, \leq\infty, |\infty|, 0]^2$$

Space Dimension: The classical space: is defined as three-dimensional (intersection x, y, and z coordinates). Perhaps, the smallest temporary space is the first space cluster / first cosmic point. However, this first space (first cluster); A [very small moment has also expanded at a faster rate than the speed of light \(Inflation Theory\)](#). [The infant photo of the universe is displayed](#).

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$$E (\text{Energy}) = M (\text{Mass}) \cdot C^2 (\text{Light Speed})$$

$$E = M \cdot [L (\text{Space}) / T (\text{Time})]^2$$

$$E = M \cdot [+ \infty, -\infty, \infty \geq, \leq\infty, |\infty|, 0 / T]^2$$

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First Cluster of the Universe / First Point of the Universe: In mathematics, a point is a place or a certain position on a plane. it has no dimensions. It is important to understand that a point is not a thing, but a place. An unlimited number of lines pass through any single point.

[The first cluster in the universe was in liquid form](#) ($10^{39} \text{ } ^\circ\text{C}$) and smaller than an atom. It is the first smallest point or cluster of the formation of the universe. The first [dark energy](#), the first [dark matter](#), the first space, the first time, and the buds of the four basic powers in the universe were in this first cluster of universe. Four basic forces in the universe: Gravity (gravity), Weak Nuclear Force (Radioactive Force), Electromagnetic Force and Strong Nuclear Force is the first creature. The first creatures that form together with the buds of these

four basic powers are the first cluster of the universe or the first point of the universe; in mathematics it also means the beginning of the objective point and the objective cluster.

In the beginning of the universe; First Dark Energy, then Space Dimension-Four Basic Strength, then Speed Dimension, Time Dimension and Dark Matter are formed.

Speed Dimension: Express unit-time mobility. Speed: The unit time is also taken from the road. It could be an incomplete statement. Because there are ways of accelerating without getting on the road. For example, [heartbeat](#). In the formula of $E = M.C^2$ related to the speed of light, interesting results are obtained when C is infinite and zero is put. The correlation results of the acceleration in the intellectual dimension will be a very important issue in the future. This situation is interesting in relation to [intellectual speed](#). Physicists have talked about tachyon molecules moving faster than the speed of light. [Tachyons](#) are considered to have imaginary mass. [Tachyons](#) do not appear in the universe. When their energy decreases, their speed increases.

E (Energy) = M (Mass). C^2 (Light Speed)

$E = M. [L$ (Space) / T (Time)] 2

$E = M. [+ \infty, -\infty, \infty \geq, \leq \infty, | \infty |, 0] ^2$

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The beginning of the Big Bang Theory; [Refers to expanding faster than the speed of light](#). [This situation](#) overlaps with [Inflation Theory](#).

The fate of the rapidly expanding Universe; It overlaps with the [Big Rip Theory](#).

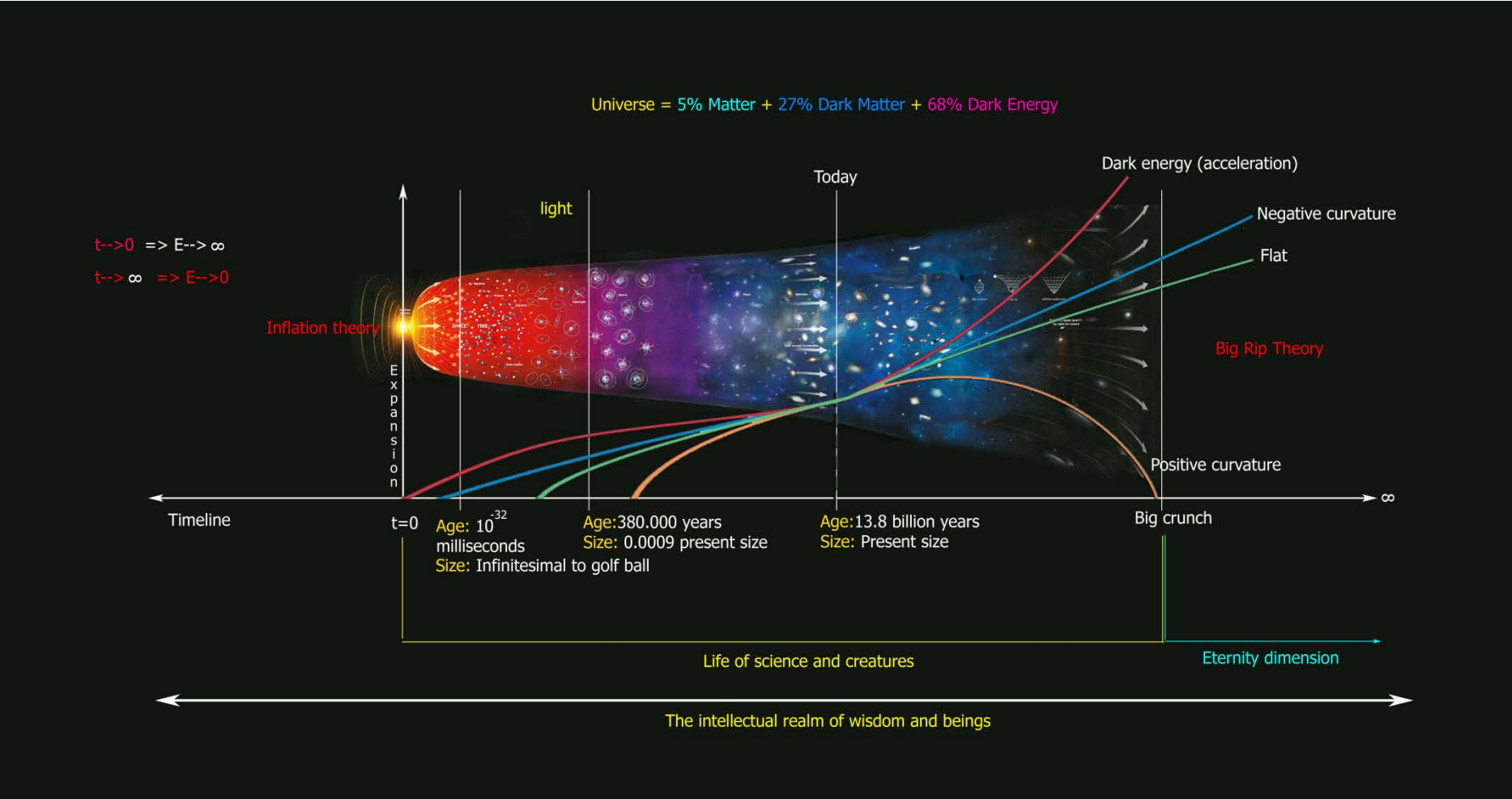
[Dimension of Forces in the Universe](#): It contains all the forces in the universe. Our visible universe is 5% (Matter = [light](#) + energy + mass). It includes gravitational force, weak nuclear force, electromagnetic force, and strong nuclear force. 68% of the universe forms [dark energy](#). The [dark matter](#) that forms 27% of the universe and holds the galaxies together.

Death: It is the irreversible collapse or change of the creature systems. In short, it is the irreversible change of the creature's system. For example, the death of human, [the death of the Universe](#) is [Doomsday](#).

Being: It comes from being. It is actually wrong and defamatory to think of nothingness. Everything is intellectually and figuratively present in wisdom. This is also a potential wisdom. But everything is not transformed into a creature with energy. However, some are shaped as creatures with energy.

Creature: They are living things and inanimate things, created by energy, from the beings realm.

Conclusion: There are various energy status in the universe. For example, solid, liquid, gas, heat, radiation, sound, wave, light, virtual, intellectual, digital ... etc. Energy statuses change towards the future. The temperature variability was between $10^{39} \text{ }^{\circ}\text{C}$ / $-273 \text{ }^{\circ}\text{C}$. There are 5 basic facts and processes that guide evolution and change in the universe. These are: 1- Increasingly accelerating, 2- Increasingly expanding, 3- Cooling increasingly, 4- Increasingly being buried in the darkness, and 5- Changing areas of gravitation and evolving; It is a universe.



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