

**The EXIUM
Universe
And the Ultimate
Entity**

The Ultimate Entity Created Everything

M. B. Sonntag

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Introduction

The EXIUM theory has emerged directly out of the foundation of our standard theory. It is also the first and only source to provide solutions to the many unsolved mysteries. This is why the EXIUM theory has become the most important addition to our current standard theory.

Examples of similarities between the two theories:

Standard Theory	EXIUM Theory
Proton particle	is a potential energy quantum
Graviton	is a measure of the gravity force
Electron	is a polarized-energy quantum
Magneton	is a measure of the magnetic force

I would like to emphasize that each of the many mysteries unveiled by the new EXIUM theory, coincide precisely with past and present observations and are fully supported by the physical law. Most importantly of all, it is also the first unifying theory in which each single statement is easily testable including: how Einstein's stretched space creates gravity, why the photon maintains constant velocity and why the proton can change into a neutron. It explains in detail how the ultimate force which was so immensely powerful has first created all space from a nothingness and afterwards created all matter, all its forces and all energies in the universe.

The EXIUM Theory has unveiled many mysteries by strictly referring to the known physical law, shown next:

- 1) The origin of the substance that created all matter which has not been found to this day.

- 2) The origin and the exact composition of all space.
- 3) How and why exactly regions of empty space create black holes with the most extreme gravitation known today, including their own mass.
- 4) Why all matter has to accelerate naturally outwards, under the known physical law, without the help of dark matter and dark energy.
- 5) Unveils the mystery of dark matter and dark energy.
- 6) What produces the Doppler Effect in space.
- 7) What is the mechanism that makes light to be constant throughout cosmic space.
- 8) Why light slows down one third within the substance of glass and what energy exactly reaccelerates light to its normal 300,000 km/s leaving the glass surface.
- 9) How and why atomic nuclei produced their own gravitation, their Coulomb force, their electron sphere and also produced their own mass.
- 10) Why, when two protons fuse, the second proton has to transform into a neutron.
- 11) Why heavy nuclei of the heaviest elements, instead of becoming more solid, because of their increased gravitational binding force, they are forced to decay into lighter elements, according to the physical law.
- 12) How atoms glue together to produce solid matter without the help of electron sharing.
- 13) How the single electron of the hydrogen atom can create an electron sphere without resorting to quantum mechanics.

Solutions to Nature's Many Mysteries

To this day we continue to search for the **actual substance** that created all matter in the universe. We know atoms and their nuclei consist purely of empty space yet, atoms are capable of producing thermal nuclear energy that fuels our sun and an atomic bomb. We observed empty space can transform into spherical regions, known as black holes, which produce the strongest gravitational forces known today.

This overwhelming evidence of how empty space can create such extreme gravitational forces and produce nuclear thermal energy undeniably demonstrates that the solution to nature's mysteries can only to be found within the very constitution of empty space. These activities in empty space show, the physical law does not dictate the many forces and energies how to behave instead, their precise behavior is the actual physical law, such as the forces within black holes.

If we consider how powerful the gravitational force within a black hole can be, yet it consists of nothing other than empty space. Also, consider how much energy our sun or an atomic bomb produces, yet the atoms and their nuclei that create the energy consist purely of empty space.

How then can empty space be a vacuum and nothingness? Since we know only a substance could produce forces or energy, we may have to accept that:

“Space is the ultimate potent substance of all”.

Note: Published scientific sources and my observations align with my statements presented herein.

The Ultimate Entity Produced Everything

A preponderance of observations suggest, an entity exists that is so extremely potent it was capable to have produced the entire universe with all its forces, all its energies, including all life on earth.

If this entity would disappear, the universe would collapse and disappear just as suddenly. The “until now” undetected entity is the sole and only substance which all space, all atoms and their nuclei are made of. As tiny as half the volume of a neutron, this ultimate discrete entity is composed of half positive and half negative space.

Established observations demonstrate the discrete space quantum solely produces all nuclear thermal energy all kinetic energies and the energy needed to produce all life on earth. In addition, it is the sole producer of all forces such as gravity, gravity within black holes, magnetism, electricity, thunderstorms, hurricanes, propagations of the electromagnetic waves including light and more. In short, this newly discovered phenomenon is the sole ingredient and the sole producer of everything. This **potent** space quantum is easily traceable in every atom and in every breath we take!

As a result of its potency and ultimate power above everything, it exhibits precise solutions to the many unsolved mysteries as revealed in this book.

All solutions shown in this book are strictly based on known physical laws and are supported with evidence and the numerous observations.

If Empty Space is the Most Potent Substance Then what is Nothingness?

A total nothingness cannot consist of an energy-producing substance such as space and matter, and cannot sustain the continuity of time. This is the reason why the yet unwritten fundamental physical law holds: nothingness is an eternal, closed state, totally void of space, matter and time. This ultimate nothingness is called *antispac*e because antispace is exactly the opposite of space as it totally lacks the three-dimensional space, matter and time. But the potential void of antispace can open up and harbor a near infinite volume of space and be the host of an expanding universe. Antispace always bonds directly to the outer surface of the universe (shown later). To visualize how antispace can harbor space, here are some examples:

- 1) A submerged submarine displaces its exact volume within water.
- 2) The planet earth displaces its exact volume within space. Where a planet exists, there cannot be empty space!
- 3) A specific amount of space equally displaces its exact volume within the closed state of antispace, in the same manner as a submarine displaces its volume within water.

The big mystery is how all space, the most potent substance now known, including the space substance all atoms and their nuclei are made of, could have come into existence out of total nothingness? This seems contradictory to our most fundamental

law of physics. As we know, to create our universe from nothing, an energy or a force is needed which has to be equal in strength to all space, all existing energy and the potential energy concealed within all matter in the entire cosmos. How then can nothingness produce such an enormous, gigantic force capable of creating our entire universe? It just seems impossible. But as this book will show, it appears, I have discovered this exact gigantic, supreme force that in the beginning created a finite cosmic space and afterwards created all matter. This supreme force still exists today but it is so camouflaged, we are not even aware of it or its full potential (shown next).

The Physical Laws and Multiple Observations Reveal how a Finite Cosmic Space Could have been Created

The first as yet unwritten physical law holds: Any substance, including all cosmic space and all matter has to come into existence first, in order to be present with finite dimensions, beginning to age at the moment of birth. Consequently, space was born at the beginning of time, has a specific age and has finite dimensions, by means of bordering directly with its spherical surface onto the closed state of antispaces.

Without a doubt, this same law stated above, provides the first reason why there has to be a state of antispaces to create a finite space. Space needs the surrounding closed state of antispaces to have finite dimensions. Just like an air bubble which could appear within water, so has space begun to displace from zero an increasing volume of three-dimensional space into the void of antispaces (shown next).

How and Why Space Could Have Come into Existence Only as Discrete Finite Space Quanta

And of What all Space is Exactly Made of

How the first evidence of three-dimensional space appeared are speculations at best and is beyond the scope of this book as a different topic. Even so, according to the known physical law and all established findings, the ultimate substance called space could have come into existence as follows: Before the beginning of even the tiniest existence, there was only a closed state of antispaces. But in this timeless and spaceless realm of nothingness occurred a change. The extremely rigid, eternal nothingness began to transform into a much less rigid, tiny, soft point. This tiny soft point was still equal to nothingness, but it became the first evidence of space that began to appear into the closed state of antispaces as an embryo space quantum.

The section: How Black Holes Create Their Supreme Gravity and Mass presents very strong evidence that a collapsed star has stretched and hereby diminished its surrounding space density which has now become partial antispaces the force that creates the black hole's gravitation. Based on this strong evidence, if antispaces adheres to the emerging space quantum's surface with a gravitational pull, equal to the force of a black hole it produces its instantaneous expansion.

However, as the space quantum was virtually ripped out from a closed state of nothingness, by the force of attraction developed between space and antispaces, the volume

accumulated could only have been an extremely small unit of space. This means, even the tiniest expansion added to this immature figment of space would have created an expansion resistance of the highest order. With the continuing expansion, the space quantum's counteracting inward contracting force simultaneously increased in proportion with its expanding volume, which ultimately reached equal strengths and equilibrium with the outward pull administered by the antispace force within its mature volume.

According to Albert Einstein and confirmed observations, space was born with the propensity to bend, warp and stretch. **The expanded stretched inner space within the space quantum has now been charged with elastic potential energy, in a similar manner as a stretched spring incurred elastic potential energy.** To summarize: according to this law, the inner space of the space quantum would increasingly become more resistant to expansion and would equally be charged with the ultimate elastic potential energy which would be equal to the gravitational force of a black hole. The presence of the space quantum's elastic inner space will be normal at the center but the very presence of space progressively diminishes from the center outwards and erodes towards its surface, simultaneously increasing its inner cohesive force of contraction in proportion to its expanding volume. Consider the following:

- 1) The surrounding antispace force of attraction adhered to the space quantum's surface, induces a force of expansion.
- 2) The space quantum's inner space creates a force of contraction.

Consequently, under the pull of the antispaces force, the newborn space quantum should have soon grown to maturity, which turned out to be equal in size to half the volume of a neutron (shown later).

Why the First Space Quantum Expands Only to a Specific Quantized Volume

Evidence in the following pages shows, atomic nuclei are purely composed of space quanta. Mathematical tests have confirmed, space quanta expanded only to as much as half the volume of a neutron.

The space quantum with this specific volume and in addition charged with tensional potential energy fits exactly and provides solutions to many unsolved mysteries of the atomic behavior such as:

- 1) Why the proton's increased space density has produced the proton's positive Coulomb force.
- 2) Why two single protons fuse and the second proton transforms into a neutral neutron.
- 3) Why the neutron is neutral.
- 4) Why a single neutron transforms into a proton in 15 minutes. (More examples are shown later.)

The physical interactions produced between the newly arrived space quantum and the gravitational pull from its surface towards the surrounding antispaces immediately activated the continuity of time and in unison forged the foundation of the physical law.

The first appearance of space has not only created a permanent attraction between space and antispaces, but this same force of intense gravitational attraction towards antispaces has produced a chain-reaction of continuous creation of new space quanta, setting forth a perpetual expansion of homogeneous cosmic space. As space quanta continued to come into existence, they were spontaneously pulled towards one another and permanently bonded by their surrounding gravitational force of antispaces. The proliferation of increasingly greater numbers of space quanta created an expanding, homogeneous fabric of space.

We may assume the place of birth of all space originated from this point. All cosmic space was pulled into existence from this point. Although shortly afterwards, this point must have widened to become an orifice of gigantic proportion, a vast spherical cosmic region we may visualize as the most gigantic primeval place of birth of all space, which preceded the Big Bang which created all matter.

Antispaces is bonded directly to the surface of all space, this means to the surface of an expanding space sphere, which later evolved into the creation of the universe. The supreme force of gravitation energized by the surrounding antispaces reaches as far as to the center of the universe to be, putting the entire universe, all space, all atoms and their nuclei under an extreme tensional suspension.

At the vast distant cosmic center-point where space initially came into existence, the antispaces gravitational, tensional-stress has greatly diminished. Naturally, from the center-point outwards, the diminished gravitational force re-increases progressively towards the outer edge of the universe, where the

supreme antispace force of gravitational attraction resides. As a result, this extreme gravitational attraction sets all matter within the universe in motion with progressively increasing velocity outwards and towards the antispace force at the surface of the universe.

I'd like to add more detail to the birth of space. Space quanta came into existence with an accelerating rate. The attracting force developed between the expanding space sphere's surface and the surrounding antispace force (which adhered to the spherical surface of the expanding cosmic space) continued to bring space quanta into existence, which should have been an incomprehensibly great amount per given time laps. Because space is massless, the space sphere may have inflated with an accelerated rate and continued to expand to such vast distances, they may just be too enormous for mankind to visualize.

There are two factors to consider in this greatest primeval event. These two opposing forces:

- 1) The force of attraction exerted between space and antispace has initiated first the creation plus the expansion of cosmic space.
- 2) The force of tensional contraction within the inner space quanta, are responsible to have limited expanding space to a specific spherical size finite diameter.

The inner cohesive elasticity of cosmic space is stretched to an extreme tensional stress, where its spherical surface directly contacts the adjacent state of antispace. From there, the antispace force recedes within the elastic fabric of space towards the cosmic sphere's center to a greatly reduced tension, according to the law of gravity. Cosmic space continued to

expand towards its final phase reaching its mature and ultimate, finite volume. The actual strength of each space quantum's inner cohesive, elastic, contracting force is the reason and the cause the expansion of cosmic space has finally been halted and limited to constitute a specific, finite size diameter.

The tensional force of all space quanta in unison increased in exact proportion to the expansion of space and the inner cosmic core has ultimately become equal in strength to the pull of the outer surrounding supreme gravitational antispaces pull.

The curved cosmic space sphere agrees with Albert Einstein's view that space may be curved and unbound, yet finite, within its direct dimensions.

According to astrophysical observations regarding the behavior of space, we have established the law of gravity, which states: gravity recedes by the square to the distance measured from the center to the radius of the star, planet or galaxy. This established law holds, gravity within galaxy clusters equally recedes by the square to the distance measured from the center of galaxy clusters to their outer regions.

Even the tensional draw of the supreme antispaces gravity force created at the surface of the cosmic space sphere should diminish towards the center of the universe to near zero gravitational force.

We may conclude, at the center-point where space initially blew up into the closed state of antispaces, the space quanta's gravitational stresses have almost normalized and their inner space of the intensity of presence regained their normal state of near full presence. At near zero gravitational stresses at the universe's center, space has created an environment in which the antispaces force has lost the powerful pull to continue to draw

new space quanta into existence, inhibiting the birth of new space quanta and therefore prevented a further expansion of space. This was the final phase in the evolution of expanding space where space was inevitably halted and limited to a specific size diameter by its inner elastic, tensional cohesive force and has created a finite, space sphere, the size of our universe.

Is Antispace the Force Causing the Accelerating Expansion of the Universe?

Astrophysicists discovered overwhelming evidence that a superior force accelerates all matter outwards within the universe. In 1998, two research teams set out to gather more evidence that the Big Bang really happened by establishing that the combined gravitational pull within the cosmos should by now decelerate and slow down the outward flow of all matter. New findings were presented by two research teams, one headed by Saul Perlmutter and the other by Brian Schmidt. They studied over 50 distant supernovae and concluded that matter within the universe is not slowing down. They discovered that all matter accelerates outwards with progressively increasing velocity [towards the outer edge of the universe].

This discovery fits well with my findings that an extremely powerful gravitational force resides at the edge of the cosmos called antispace, which pulls all matter outwards.

The following pages provide strong evidence that all space is made up purely of a space quantum substance, similar in character and structure to matter.