

Balanced opposites, the fourth spatial dimension, and the unified structure of reality

Abstract

This article develops a unified conceptual framework in which space, time, mass, motion, electromagnetism, gravity, and perception arise from a deeper structural equilibrium expressed through balanced opposites. The model identifies a fourth spatial dimension as the balanced form of reduced/extended, visible/invisible, flat/curved, and potential/actual structure. The central principle is that acceleration is always proportional to inertial resistance, thereby perfectly explaining the equivalency and balancing of inertial and gravitational mass. Within this framework, $E = mc^2$ and $F = ma$ are interpreted as unified, balanced opposites, fully consistent with the fourth spatial dimension and the claim that electromagnetism IS gravity (ON BALANCE). The structure of the eye, the Earth–Sun system, the Moon’s rotation–revolution symmetry, stellar clustering, lightning, neutron stars, pulsars, extragalactic jets, coronal loops, wave/particle duality, entanglement, dreams, and the arrow of time are all interpreted as manifestations of this same fourth-dimensional balance.

The article also emphasizes that the integrated extensiveness of thought and description improves in the superior mind, and that the ability of thought to describe or reconfigure sensory experience depends upon the extent to which thought is similar to sensory experience, even though thoughts themselves are invisible. Dream experience is shown to be fundamentally consistent with the fourth spatial dimension, as bodily/visual experience in dreams is invisible AND visible in fundamental equilibrium and balance, mirroring the balanced electromagnetic/gravitational structure of space. This synthesis is presented as a coherent, top-down conceptual model of physical, perceptual, and astrophysical reality.

Keywords: fourth spatial dimension, arrow of time, time, space, balanced opposites, electromagnetism, gravity, inertial mass, gravitational mass, $E = mc^2$, $F = ma$, wave/particle duality, coronal loops, entanglement, dreams, perception, stellar clustering, neutron stars, pulsars, extragalactic jets, blue hypergiants, complete combustion, eye–Earth equivalency, density relations

Volume 10 Issue 2 - 2026

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Introduction

The unification of physical law requires a structural principle capable of integrating space, time, force, motion, perception, and astrophysical structure. This work proposes that such unification arises from balanced opposites operating within a fourth spatial dimension.

In this model, physical and perceptual reality arise from opposites that are:

- reduced and extended
- visible and invisible
- flat and curved
- electromagnetic and gravitational
- potential and actual

The framework asserts that:

- Electromagnetism IS gravity (ON BALANCE)
- Acceleration is always proportional to inertial resistance
- Inertial and gravitational mass are equivalent because they are balanced opposites
- $E = mc^2$ and $F = ma$ are unified, balanced opposites

- Space is flat AND curved, reduced AND extended, invisible AND visible in fundamental equilibrium and balance
- Time is potential AND actual on/in balance
- The Earth and the Sun are (equivalently, on balance) a point in the night sky
- What is the eye IS what is the Earth (on balance)

This unified structure is used to interpret wave/particle duality, entanglement, magnetism, coronal loops, stellar clustering, the arrow of time, and the perceptual geometry of the eye.

The law of proportionality and the fourth spatial dimension

Acceleration proportional to inertial resistance

The foundational principle is:

Acceleration is always proportional to inertial resistance.

This principle is taken as the mechanism behind:

- the equivalency and balancing of inertial and gravitational mass
- the uniform acceleration of freely falling objects

- c) the unity of electromagnetism and gravity
- d) the necessity of the fourth spatial dimension

In this model:

- A. Reduced gravity means increased inertial resistance
- B. Increased inertial resistance means increased gravity (on balance)

Thus, the equivalency and balancing of inertial and gravitational mass must be—and in this framework *is*—proven by both equations, $E = mc^2$ and $F = ma$, consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE).

Space as reduced and extended

Flat and curved space

Space is:

- a) flat through electromagnetic propagation
- b) curved through gravitational contraction

These opposites coexist in equilibrium.

Invisible and visible space

Space is also:

- a) invisible (gravitational, reducing)
- b) visible (electromagnetic, extending)

Thus:

SPACE is flat AND curved, reduced AND extended, AND invisible AND visible in fundamental equilibrium and balance. This balanced structure is consistent with the fourth spatial dimension and the unity of the equations.

Unified opposites in fundamental equations

$E = mc^2$ and the fourth spatial dimension

$E = mc^2$ is fully consistent with the fourth spatial dimension. It expresses the potential → actual transformation of mass and energy in a way that matches the balanced structure of reduced/extended and invisible/visible space. The eye is also consistent with the fourth spatial dimension, as its structure reflects a balanced scaling: conceptually, c corresponds to one half and c^2 corresponds to one fourth, mirroring the proportional reduction and extension of energy and space.

The eye is consistent with complete combustion, the blue sky, the blue Earth, and the blue flame in microgravity, all of which manifest the balanced electromagnetic/gravitational structure of space. The eye is likewise consistent with electromagnetism, gravity, wave/particle duality, and both equations, because its structure embodies the same reduced/extended, invisible/visible equilibrium that defines the fourth spatial dimension.

$F = ma$ and balanced opposites

$F = ma$ expresses the actual → potential transformation of force and acceleration.

Thus:

$E = mc^2$ and $F = ma$ are unified, balanced opposites, consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE), AS acceleration is always proportional to inertial resistance. Together, the two equations form a unified

fourth-dimensional pair that proves and maintains the equivalency and balancing of inertial and gravitational mass.

Coronal loops between time and no-time

Coronal loops as balanced opposites

Coronal loops exist between:

- 1) time (electromagnetic motion)
- 2) no-time (gravitational equilibrium)

They are visible manifestations of the fourth spatial dimension.

No coronal heating problem

Within this framework: There is no coronal heating “problem.”

Coronal loops naturally arise from the balance of gravitational reduction and electromagnetic extension.

The point equivalency and planetary structure

The Earth and Sun as a point

On/in balance:

The Earth AND the Sun are (equivalently, on balance) a point in the night sky, consistent with the totality of SPACE and TIME. Accordingly, the Earth AND the Sun are balanced opposites, consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE).

Lunar symmetry

The **rotation of the Moon matches its revolution**, a perfect 1:1 expression of fourth-dimensional balance. This symmetry is consistent with:

- a. $E = mc^2$ and $F = ma$ as unified, balanced opposites
- b. electromagnetism IS gravity (ON BALANCE)
- c. acceleration always proportional to inertial resistance

The biological anchor: the eye and the earth

The eye as reduced and extended

The eye contains:

- a) the flat, black pupil (reduced, invisible)
- b) the corneal dome (extended, visible)

These are balanced opposites.

Eye–earth equivalency

The Earth is:

- a) extended in space
- b) reduced to a point in the night sky

Thus:

WHAT IS the eye IS WHAT IS the Earth (ON BALANCE), consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE), AS acceleration is always proportional to inertial resistance.

The eye as visible and invisible

The eye is visible AND invisible in fundamental equilibrium and balance, consistent with the fourth spatial dimension. This dual structure perfectly explains:

- 1) stellar clustering,
- 2) $F = ma$,
- 3) $E = mc^2$,

Because the eye embodies the same reduced/extended, invisible/visible balance that defines the fourth spatial dimension.

The yellow Sun is the size of the pupil of the human eye, and orange lava produces orange flames, consistent with the reduced/extended equilibrium of electromagnetism and gravity.

Consider time AND no time. Consider lightning, which expresses the same balanced electromagnetic/gravitational structure.

Time is potential AND actual on/in balance, consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE). $E = mc^2$ and $F = ma$ are unified, balanced opposites, consistent with the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE). Again, balance AND completeness go hand in hand.

Consider the man AND what is the eye (on balance) standing on what is the Earth. Consider the feeling of gravity AND touch, as they blend into the perceptual structure of the eye, AS touch AND feeling blend, AS electromagnetism IS gravity (ON BALANCE), consistent with the fourth spatial dimension.

Basalt rock is three times the density of surface saltwater. The bulk density of the Moon is comparable to basaltic lavas. Regarding $E = mc^2$, $c = 1/2$ and $c^2 = 1/4$, consistent with reduced/extended balance.

Surface saltwater is half the density of wet, packed sand. Thus:

- a) $1/2 \times 1/3 = 1/6$,
- b) $1/4 \times 2/3 = 1/6$,

Both yielding the Moon's surface gravity ratio.

The lunar maria occupy almost one third of the near side, the far-side crust is up to twice as thick.

The perceived brightness of the orange setting Sun matches the white, fully illuminated Moon, both are the same size as the human eye.

The land surface area of Earth is 29%, precisely between one third AND one fourth, as required by fourth-dimensional balance.

Thought, sensory experience, and the superior mind

Thought is invisible, yet it reorganizes and reconfigures visible sensory experience. This is possible only because:

- 1) The ability of thought to describe or reconfigure sensory experience is ultimately dependent upon the extent to which thought is similar to sensory experience, and
- 2) The integrated extensiveness of thought and description is improved in the truly superior mind.

It is a very great and deep truth that the self represents, forms, and experiences a comprehensive approximation of experience in general.

Dreams fundamentally improve upon memory and understanding. In fact, there is no outsmarting the genius of dreams. Dreams make thought more like sensory experience in general. Thus, cognition itself reflects the same balanced structure—reduced and extended, invisible and visible—that characterizes the fourth spatial dimension.

Dreams, time, and the fourth spatial dimension

Dreams provide direct experiential evidence of the fourth spatial dimension.

In dreams:

- 1) bodily/visual experience is invisible AND visible in fundamental equilibrium and balance,
- 2) the gravitational experience of the Earth is balanced with the perceptual experience of the eye,
- 3) time is potential AND actual on/in balance,
- 4) and the electromagnetic/gravitational nature of the fourth spatial dimension is clearly expressed.

Thus:

Dream experience is perfectly, clearly, and fundamentally consistent with the fourth spatial dimension, balanced between full gravity (the Earth) AND the perceptual structure of the eye.

Dreams are consistent with time, the fourth spatial dimension, and the arrow of TIME, as bodily/visual experience in dreams is invisible AND visible in fundamental equilibrium and balance, consistent with SPACE that is reduced AND extended on/in balance. Indeed, the fundamentally balanced electromagnetic/gravitational nature of what is the fourth spatial dimension is clear.

Astrophysical phenomena in the fourth spatial dimension

Stellar clustering, lightning, neutron stars, pulsars, and extragalactic jets are all sensibly described within this framework. The very short lifespan of the blue hypergiant star is directly comparable to the blue sky in relation to complete combustion, both expressing the same reduced/extended electromagnetic–gravitational balance. The Sun is predicted to become a white dwarf, consistent with the fourth spatial dimension and the unified structure of mass, energy, and gravitational reduction. The big picture is indispensable: the totality of TIME AND SPACE is shown to be of critical importance. The great question of why there is something rather than nothing is, for the first time, fundamentally addressed: balanced opposites in the fourth spatial dimension necessarily produce structured existence.

Conclusion

Electromagnetism IS gravity (ON BALANCE), consistent with the fourth spatial dimension. SPACE is flat AND curved, reduced AND extended, invisible AND visible in fundamental equilibrium and balance. Reduced gravity means increased inertial resistance, increased inertial resistance means increased gravity. Acceleration is always proportional to inertial resistance, perfectly explaining the equivalency and balancing of inertial and gravitational mass.

$E = mc^2$ is fully consistent with the fourth spatial dimension, and together with $F = ma$, the two equations are unified, balanced opposites. The Earth and the Sun are a point in the night sky and are balanced opposites. The rotation of the Moon matches its revolution, consistent with fourth-dimensional balance. What is the eye is what the Earth is. The eye is visible AND invisible in fundamental equilibrium and balance, perfectly explaining stellar clustering and the unity of the equations. Time is potential and actual on/in balance. Dreams are perfectly consistent with the fourth spatial dimension, as bodily/visual experience in dreams is invisible AND visible in fundamental equilibrium and balance, balanced between full gravity and the experience of the eye. Stellar clustering, lightning, neutron stars, pulsars, and extragalactic jets all follow from this same balanced structure. The blue hypergiant star, the blue sky, complete combustion, the blue flame in microgravity, the orange Sun, lava, tides, and the human form all express the same reduced/extended equilibrium.

The arrow of TIME is explained, AS time is potential AND actual on/in balance, consistent WITH the fourth spatial dimension, AS electromagnetism IS gravity (ON BALANCE). The integrated extensiveness of thought and description improves in the superior mind, and thought's ability to describe sensory experience depends upon its similarity to sensory experience. Balance and completeness go hand in hand. The big picture is clearly indispensable. Lava is even blood red. Yellow/white lava is the hottest lava, and the yellow flame is more vertically oriented. The orange flame approximates the shape of the standing man. Now consider what is lightning in relation to what is the Earth. Importantly, the electron is necessarily structure less at the four-dimensional limit.

Consider particle bursts on the surface of the Sun. Consider what are coronal loops and coronal rain. These forms are, in fact, representative of a balance of the eye AND of the orange flame/lava/standing man. Again, acceleration is always proportional to inertial resistance. Dream experience grows and increases. Dreams are consistent with the arrow of time AND with time as potential AND actual on/in balance. The arrow of time is now explained. The cosmological redshift proves that electromagnetism IS gravity (ON BALANCE), consistent with the fourth spatial dimension. The cosmic microwave background radiation is indicative of space that is invisible AND visible in fundamental equilibrium and balance. An infinity cannot be experienced. There was no "Big Bang." Again, consider stellar clustering.

Helium is inert. The density of helium is approximately twice that of hydrogen. Now, the relation of what is approximately one fourth helium in relation to hydrogen, regarding what is the Sun, is clear. Indeed, the density of the Sun is necessarily about one fourth of that of the Earth. The density of surface-level saltwater is necessarily one half of that of wet, packed sand. Consider what is the eye (on balance). Water is now inherently understood as necessarily mysterious. Its universal-solvent nature becomes clear. Its high specific heat capacity becomes clear as well. The fourth spatial dimension sheds light on the fact that water may be broken down and used for propulsion. The

density of ice is understood in relation to the heating of water. Ice is slippery. Again, consider what is the eye (on balance). Predictably, the average tide in the middle of the open ocean is about half of the height of the standing person (2.5 to 3 feet). Electromagnetism IS gravity (ON BALANCE). The Moon may appear ghostly (and blue), with the lunar maria then also appearing as clouds or steam clouds. Clearly, the big picture is indispensable. Time is potential AND actual on/in balance.

Consider cold WELDING regarding metals in outer "space." Now, consider magnetism. Electromagnetism IS gravity (ON BALANCE), consistent with the fourth spatial dimension. Predictably, the Moon will move away very, very, very slightly in relation to the Earth (and the person on the Earth). This is consistent with the fourth spatial dimension AND the point in the night sky (in relation to TIME). Balance and completeness go hand in hand. The Sun is predicted to become a white dwarf star about the size of the Earth. The smallest white dwarf is about the size of the Moon. The constant (or even increased) orbital velocities in the outer parts of some galaxies is no longer a mystery. There is no coronal heating "problem."¹⁻¹⁰

Acknowledgments

None.

Funding

None.

Conflicts of interest

The author declares no conflict of interest.

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