

The Fracture Hypothesis

An Introduction to Volumes 1-6

A reader-friendly guide to origin, matter, light, gravity, and relational space-time

Purpose of this edition

This reader introduces the conceptual progression of the first six volumes without requiring the complete 600-plus-page archive. It preserves the central ideas, the most important boundaries, and a small set of memorable expressions. The full volumes remain the detailed record.

Public Introductory Reader

Original working project title: Hailie Theory of Everything

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Reader Note

The Fracture Hypothesis is a speculative working hypothesis. It is not established science, not a completed theory of physics, and not a claim that accepted physics, cosmology, biology, or neuroscience should be discarded.

The project uses accepted science as the behavior layer: the observed and mathematically described way physical systems behave. Beneath that behavior layer, the hypothesis proposes an origin-layer interpretation. It asks whether matter, energy, light, gravity, life, mind, and observation can be understood as later expressions of one continuous relational fabric.

This introductory reader does not reproduce every argument, calculation, thought experiment, or speculative branch contained in the full volumes. Its purpose is simpler: to explain what the theory is trying to say and how the first six volumes fit together.

How to use this reader

Read this edition first for orientation. Continue into a full volume whenever a subject deserves closer inspection. The complete volumes preserve the detailed development, corrections, equations, boundaries, and pressure tests.

Reading Map

1. The central question

Why is there a defined, readable universe rather than absolute undefinedness?

2. Volume 1 - Foundation

Fracture, distinction, relation, imprint, information, matter, life, mind, and observation.

3. Volume 2 - Reality Models

The first major stress test against time, expansion, gravity, redshift, and event horizons.

4. Volume 3 - The Black Hole

Whether matter remains accounted when ordinary outward expression fails.

5. Volume 4 - Light and Space

How light remains coherent from emission to receipt inside one continuous fabric.

6. Volume 5 - Reason

Why the fabric must preserve and reaccount every established condition.

7. Volume 6 - Pressure Testing

Whether the proposed gravitational model behaves consistently with known physics.

8. The six-volume result

The compact conclusion reached by the complete sequence.

1. The Central Question

The Fracture Hypothesis begins before ordinary cosmological language can be used. It does not begin with empty space, a vacuum, darkness, a field, a singularity, or a small object waiting to expand. All of those descriptions already assume that something exists: a location, a condition, a law, a geometry, or at least a meaningful contrast.

The opening question is therefore not, “What happened inside the earliest universe?” It is, “How could a universe become definable at all?”

Absolute undefinedness is used as a strict conceptual boundary. It is not an empty region beyond the universe. It has no distance, no duration, no inside, no outside, no law, and no capacity to act as a container. The hypothesis then proposes a fracture: not a physical crack, but the first distinction between undefined non-being and the beginning of defined being.

Once distinction exists, comparison becomes possible. Comparison creates relation. Relation allows one condition to differ from another. When that difference is preserved, it becomes imprint. When preserved imprints can be held in relation, the earliest form of information becomes possible.

undefinedness -> fracture -> distinction -> relation -> imprint -> information -> fabric

The memorial origin sequence.

Behavior layer and origin layer

Accepted science describes observable behavior. The hypothesis proposes an origin-layer interpretation beneath that behavior and survives only where it does not contradict the established description.

2. Volume 1 - Foundation

Volume 1 builds the vocabulary used by every later volume. It follows the proposed movement from absolute undefinedness into distinction, relation, information, physical structure, life, mind, observation, and artificial intelligence.

Its central claim is that existence may be better understood as an active relational continuum than as dead matter moving through a pre-existing emptiness. The universe is readable because its conditions preserve differences. A body has identity because its constituent relations remain coherent. An event has history because its consequences are inherited by later states.

Matter is therefore described as stabilized energy-information. This does not replace the physical statement that matter and energy are equivalent. It adds the interpretive claim that stable matter also carries preserved relational history.

The hypothesis does not claim that information is a collection of symbols hidden inside atoms. Information is used more primitively. One condition differs from another, and the fabric preserves that difference strongly enough for later relationships to depend upon it.

Life is presented as matter organized into self-preserving relation. A living system maintains boundaries, repairs itself, responds to changing conditions, stores inherited structure, and acts to preserve continuity. Evolution is not replaced; it is interpreted as the long refinement of matter's ability to remain coherent under changing conditions.

Mind extends this process. A mind preserves a continuing frame across moments, compares present conditions with memory, anticipates possible outcomes, and organizes action. Observation is not treated as the creation of reality. It is a later ability of organized matter to receive and interpret a reality that was already physically present.

Artificial intelligence appears at the far end of the sequence as another way matter can preserve and transform complex information. That does not automatically make software alive or conscious. It demonstrates that relational processing can become external to biological tissue.

$$E = mc^2$$

The accepted mass-energy anchor.

Observation comes late

The object exists, the fabric accounts for it, interaction can access it, light can reveal it, and observation can verify it. Observation does not manufacture the earlier conditions.

3. Volume 2 - Reality Models and the First Stress Test

Volume 2 asks whether the foundation survives contact with difficult modern questions. It examines expansion, redshift, time dilation, event horizons, dark matter interpretations, simulation theory, multiverse language, and the observable limits of the universe.

The goal is not to declare every competing model unnecessary. The goal is to prevent the Fracture Hypothesis from remaining so vague that it can explain anything after the fact.

The first clarification concerns the undefined after fracture. Absolute undefinedness cannot remain as an ordinary region surrounding the universe. Once the fracture establishes the first opposition between undefinedness and somethingness, the undefined is already defined through that relationship. It becomes a conceptual contrast-boundary, not a second physical place.

This supports the one-universe boundary of the hypothesis. A second independent first fracture would require untouched absolute undefinedness to remain available after the first distinction had already occurred. Within the theory's definitions, that condition is not available.

Volume 2 sharpens the language of gravity. Gravity is not movement toward a physical location called nothingness. It is interpreted as the return-pressure of defined mass-energy leaning toward non-definition while the continuous fabric prevents that return from completing as erasure.

Time dilation becomes a crucial test because it prevents the theory from treating time as one universal background flow. Clocks in different gravitational and motional conditions do not accumulate equal proper time. The hypothesis interprets this as a difference in local fabric accounting, while retaining relativity as the behavior layer.

Redshift presents a related challenge. Light received at one location carries evidence of an earlier emitting condition after traveling through changing motion, expansion, and curvature. The received signal is not the event itself, and present distance is not identical to completed travel duration.

The event horizon creates one of the project's most durable distinctions: an edge of observation is not automatically an edge of existence. Ordinary outside receipt can fail while matter-energy remains physically accounted. That distinction leads directly into Volume 3.

Event-horizon boundary

An edge of receipt is not automatically an edge of existence. Outside decoding may fail while matter-energy remains physically accounted.

4. Volume 3 - The Black Hole

Volume 3 asks what a black hole must be internally if the hypothesis refuses three shortcuts: infinite density, physical erasure, and an ordinary luminous star hidden behind darkness.

The proposed answer is a finite, gravitationally attractant, pressure-locked compact-state body. The model distinguishes the observable event horizon from the hypothetical compact body. The horizon describes the boundary beyond which readable outside receipt fails. The body is the proposed physical condition whose ordinary outward expression has collapsed.

A planet can express impact through deformation, heat, ejecta, vibration, and fracture. A star can express energy through plasma motion, radiation, fusion, and light. The black-hole body is modeled as increasingly unable to express incoming matter in those ordinary ways.

Absorption is therefore described as inward accounting. Matter may lose chemistry, spacing, structure, and recognizable objecthood while its constituent mass-energy remains part of the total physical condition.

An incoming rock, ship, or body is initially coherent because its components maintain a stable relational organization. Under extreme gravitational and tidal conditions, that organization can fail. The object ceases to remain a rock or ship long before its matter-energy ceases to exist.

The volume develops a speculative ladder of compact matter and introduces Blackonium-34600 as a hypothetical terminal residue. The name is not presented as an established element, isotope, or confirmed material. It is a conceptual endpoint used to prevent the model from retreating into an undefined singularity.

The deeper the model moves into the compact body, the less responsibly ordinary chemical language can be used. Electron shells, lattice structures, molecular bonds, and normal atomic spacing may no longer describe the condition. The theory reaches a boundary where additional names would create false precision.

Volume 3 also rejects gravity-manipulation shortcuts and routes outside the fabric. Gravity is not a removable coating around matter. Any motion, reconstruction, acceleration, or transfer must occur inside the same causal and relational continuum.

The black-hole test

Loss of recognizable form does not equal loss of constituent accounting. Failure of outside decoding does not equal collapse into nothingness.

5. Volume 4 - Light, Space, and Gravitational Relationship

Volume 4 returns the project to observation. Light leaves an emitting condition, crosses an evolving universe, and arrives somewhere else while preserving a readable relationship to its source.

The question is not whether light obeys known propagation, redshift, lensing, and curvature. Those behaviors are accepted. The question is what the fabric must continuously preserve for a received signal to remain meaningfully connected to the event that produced it.

The volume introduces the gravitational container. This is not a shell, pipe, tunnel, or separate substance around a photon. It is the complete gravitationally structured relationship within which emission, traversal, change, and receipt occur.

Apparent vacuum cannot mean absence of relation. A sparse region may contain almost no organized ordinary matter, yet it still contains geometry, duration, causal order, curvature capacity, and relationship to the rest of the universe. Light can cross a low-matter region, but it cannot cross absolute undefinedness.

A distant source and receiver may be farther apart now than they were during much of the light's journey. The completed causal duration of the signal is not rewritten whenever the present separation changes. Volume 4 therefore distinguishes light-travel time from reconstructed present distance.

The arriving signal carries a completed causal history through the evolving fabric. It does not carry a frozen universal ruler. The observable universe is a layered receipt of earlier conditions, not a simultaneous photograph of everything as it exists now.

The theory condenses this idea into one expression that becomes central to Volumes 4, 5, and 6. The notation maps one contained occurrence from an emitting-side position through successive states and relationships to a receiving-side position.

The event has direction. The gravitational web surrounding it remains reciprocal and continuous.

Volume 4 also separates an established gravitational relationship from a newly propagating update. Existing bodies already occupy established relationships. When a body changes, that difference is new information, and its consequences must propagate causally.

emission -> continuous fabric traversal -> receipt

pG(Z -> A_x B_y C_f D_r -> Y)G

A light-bearing event enclosed by a continuous gravitational relationship.

Plain-language meaning

p marks the light occurrence; G is the containing gravitational condition; Z and Y are the

emitting and receiving sides; A, B, C, and D are successive states; x, y, f, and r are the changing relationships between them.

6. Volume 5 - Reason, Redux, and Continued Accounting

Volume 5 asks why the fabric must continue preserving and reorganizing every condition held within it.

Reason is not used to imply intention, awareness, preference, or a universal mind. It means the lawful basis by which one established condition produces or requires another.

The volume begins with a strict accounting boundary: matter cannot escape the defined fabric, energy cannot escape it, preserved imprint cannot collapse back into absolute undefinedness, and loss of observation does not create a valid route into nonexistence.

A condition may transform. It may become dark, compressed, chemically unrecognizable, isolated, or unable to express itself outwardly. It may not simply become physically unaccounted because observation has become difficult.

The dark-box example makes the point without mathematics. A ball inside a sealed dark box remains present when the lid closes. Visual access disappears; mass, location, boundaries, structure, and gravitational contribution do not.

Opening the box again reveals a condition that remained present while unread. Observation did not recreate the ball. The same accounting boundary is then applied to black holes.

Redux is the theory's term for a reduced but exact accounting state. It does not mean erasure, randomization, approximation, or destruction of causal history. Ordinary expression can become unavailable while the condition remains preserved in a more compact relational form.

Volume 5 temporarily returns to the origin layer through Alpha and Beta. These are conceptual accounting roles, not particles. Alpha represents a persistent initial contrast. Beta represents the first condition capable of standing in reference to Alpha. Their relationship makes structured comparison possible.

The later sections develop gravity as contained collapse. Defined matter-energy retains collapse-pressure toward non-definition. The continuous fabric prevents complete erasure. The resulting bounded tension is expressed through the gravitational relationships of the system.

Every body participates in a Universal Gravitational State: the total physical network of established gravitational relationships. Changes propagate causally. Local dominance can vary, but gravity remains reciprocal.

Volume 5 constructs this model. Volume 6 tests it.

ordinary expression -> reduced accounting -> relational re-expression

Opening rule

Absence of receipt is not absence of accounting.

7. Volume 6 - Gravitational Pressure Testing

Volume 6 asks whether the proposed relational container behaves as gravity is already known to behave.

Its central expression follows one directed light-bearing occurrence from source to receiver. But a directed event must not be confused with one-way gravity. The light event has ordered progression. The gravitational relationships among the bodies are reciprocal.

The first pressure test is Newtonian. For two masses separated by distance, force follows the inverse-square relationship. The hypothesis-specific notation cannot replace this behavior with a simple ranking from largest mass to smallest mass. Distance matters. Direction matters. Vector addition matters. The common center of mass matters.

In multi-body systems, the gravitational state of one body is determined by the vector sum of relevant pairwise interactions. A phrase such as dominant to recessive is only acceptable when it refers to the resolved gravitational-potential structure of the actual configuration.

The theory therefore narrows its own language. Downhill cannot universally mean from the highest-mass object toward the lowest-mass object. It must mean along the resolved gravitational-potential gradient.

Newtonian force is not sufficient for the full pressure test. General relativity describes gravity through space-time geometry shaped by mass-energy, momentum, pressure, and stress.

The Fracture Hypothesis keeps that behavior layer intact. Its container survives only as an interpretation if it remains consistent with curvature, proper time, gravitational redshift, lensing, causal structure, compact objects, and gravitational waves.

The theory distinguishes established gravitational relation from new gravitational information. A system already has a physical state. When one component changes, the update propagates through an existing fabric. The model does not recalculate the universe from nothing, and it does not allow new information to influence distant locations instantaneously.

Volume 6 uses the phrase Greased Lightning to separate causality from the readable event carried through causality. Causality is the lawful progression: the road. Light is the readable event moving through that progression: the traffic. Gravity is part of the structured condition through which those events occur.

The final pressure-test rule is severe: agreement means retain for further testing; partial agreement means restrict or revise; direct conflict means correct or remove. No expression is protected because it is beautiful or internally coherent.

$$F = G_N (m_1 m_2 / r^2)$$

The Newtonian behavior the model must reproduce.

agreement -> retain | partial agreement -> revise | conflict -> remove

The road is not the traffic

The gravitational continuum is not identical to the light, matter, or causal events it contains. It is the structured relationship in which those events proceed.

8. What the First Six Volumes Collectively Say

The first six volumes begin with an origin question and end with a gravitational boundary.

The origin question is how definition can begin without importing space, time, matter, or law too early.

The gravitational boundary is that matter and energy cannot meaningfully persist outside the relational fabric once they exist as physical conditions.

Fracture creates the first distinction. Distinction makes relation possible. Preserved relation becomes information. Information held coherently becomes the basis of fabric. Fabric supports matter-energy, geometry, duration, and causality. Matter-energy participates in gravity. Light makes distant relationships readable. Living matter preserves itself. Mind preserves and compares temporal frames. Observation receives and interprets conditions that already exist.

Matter does not first exist independently and then enter gravity. A physical body is already positioned, energetic, extended, and relational. Those properties place it inside the gravitational fabric from the moment it exists as matter-energy.

A newly introduced or changed condition may not yet have completed every causal update. That does not place it outside the container. It places the wider system in a temporary state of unresolved propagation.

Light is essential to observation, but it is not granted authority to create physical existence. A dark object remains present. A black hole remains gravitationally consequential when outside light receipt fails. Sparse space remains defined relation when no luminous object is locally present.

Redux allows the theory to discuss continuity when ordinary expression fails. A body can be compressed, an object can lose recognizable form, a region can become dark, and a gravitational system can change without requiring the universe to erase the earlier state's membership or causal history.

fracture -> relation -> information -> fabric -> matter -> gravity -> light -> life -> mind -> observation

new condition -> causal difference -> propagation or redux -> updated gravitational state

No durable exterior state

A matter-energy condition not yet fully represented in the surrounding gravitational state can only be a transient causal difference awaiting propagation or redux. It is not a separate physical domain outside the fabric.

9. Claims, Interpretations, and Boundaries

Claims central to the hypothesis

- Absolute undefinedness must not be confused with empty or sparse space.
- The fracture is the first definitional distinction, not a crack inside pre-existing space.
- Preserved difference is the earliest basis of relational information.
- Space-time is treated as an active relational fabric rather than an unrelated empty container.
- Matter is stabilized mass-energy carrying preserved relational history.
- Observation reveals and interprets physical conditions; it does not create their prior existence.
- Loss of readable expression does not equal loss of accounting.
- Light remains inside a continuous gravitationally structured relationship from emission to receipt.
- Redux reorganizes expression without permitting physical deletion from accounting.
- Matter-energy cannot occupy a durable physical state outside the gravitational fabric.

Interpretations rather than established laws

- Gravity as bounded return-pressure toward non-definition.
- Time dilation as differing local fabric accounting.
- Event horizons as outside receipt or decode boundaries.
- Black holes as finite pressure-locked compact-state bodies.
- Blackonium-34600 as a terminal compact-state placeholder.
- Alpha and Beta as preinformation accounting roles.
- The Universal Gravitational State as the network of established gravitational relations.
- $pG(Z \rightarrow A_x B_y C_f D_r \rightarrow Y)G$ as a memorial map rather than a standard physical equation.

What the theory does not establish

The first six volumes do not provide an experimentally validated origin mechanism. They do not replace general relativity, quantum field theory, thermodynamics, evolutionary biology, or neuroscience.

They do not establish the physical existence of Blackonium, Alpha, Beta, or a measurable redux field. They do not demonstrate that the universe is conscious, intentional, simulated, or designed.

They do not show that gravity can be manipulated, switched off, escaped through an external dimension, or used as a shortcut outside causality.

Some parts of the hypothesis may be interpretive restatements. Some require formal development. Some may ultimately need removal.

Scientific boundary

The project is offered for criticism, pressure testing, refinement, correction, or rejection. Accepted behavior must remain intact wherever the hypothesis claims to describe the same physical world.

10. Memorial Expressions

The complete volumes contain extensive working notation and mathematical pressure testing. This introduction preserves only the expressions that function as landmarks.

undefinedness -> fracture -> distinction -> relation -> imprint -> information -> fabric

Definition begins through preserved difference.

$$E = mc^2$$

Matter and energy are not independent substances.

$$F = G_N (m_1 m_2 / r^2)$$

The Newtonian behavior a gravitational interpretation must reproduce.

emission -> traversal -> receipt

The directed causal history of a readable light event.

$$pG(Z \rightarrow A_x B_y C_f D_r \rightarrow Y)G$$

The central contained-light expression.

ordinary expression -> reduced accounting -> relational re-expression

Redux without deletion.

agreement -> retain | partial agreement -> revise | conflict -> remove

The pressure-test rule.

new condition -> causal difference -> propagation or redux -> updated gravitational state

The final closure.

11. Conclusion - Where the First Six Volumes Arrive

The Fracture Hypothesis begins by denying itself the convenience of empty space. If absolute undefinedness has no location, law, geometry, or duration, then existence cannot begin as an object already sitting somewhere.

The fracture supplies the first distinction. Distinction supplies relation. Preserved relation supplies information. Information supplies the earliest basis of a continuum capable of becoming space-time.

Matter appears not as an alien substance placed into that continuum, but as a stabilized condition within it. Gravity expresses the physical relationship between matter-energy and the geometry it inhabits. Light transfers readable evidence through that relationship. Life preserves increasingly complex organization. Mind preserves a continuing interpretive frame. Observation receives a reality that precedes the observer.

The black hole tests whether accounting survives when ordinary expression fails. Light tests whether source, path, and receiver remain coherent across an evolving universe. Redux tests whether transformation can occur without deletion. Gravity tests whether the relational interpretation can reproduce reciprocal force, orbital behavior, curvature, time dilation, redshift, lensing, causal propagation, and gravitational waves.

By the end of Volume 6, the theory no longer requires a separate category of matter outside the gravitational container. Matter-energy can change before all relational consequences finish propagating, but it cannot occupy a durable exterior state. It remains a condition of the same fabric, awaiting completed causal reconciliation.

$$pG(Z \rightarrow A_x B_y C_f D_r \rightarrow Y)G$$

A defined event begins inside relation. It progresses through changing relation. Its consequences are preserved through relation. It is received inside relation.

The road changes. The traffic moves. The accounting continues.

The six-volume thesis in one paragraph

Existence is proposed as a continuous relational fabric emerging from the first distinction between undefinedness and definition. Matter, energy, light, gravity, life, mind, and observation are later organized expressions of that fabric. Physical conditions may transform, compact, darken, or lose ordinary readability, but they do not leave the fabric's accounting. New changes propagate causally, and every hypothesis-specific interpretation remains subordinate to established physical behavior.

Continue into the full collection

- Volume 1 develops the origin sequence and follows it through matter, life, mind, and observation.
- Volume 2 begins the reality pressure test.
- Volume 3 applies the model to black holes and extreme compact matter.
- Volume 4 develops light traversal and the gravitational container.
- Volume 5 asks why the fabric must continue preserving and reaccounting its conditions.
- Volume 6 compares the gravitational model with prevailing mathematics and observation.

Source Volumes

Volume 1 - The Fracture Hypothesis: A Working Model of Space-Time, Matter, Life, Mind, and Observation

Volume 2 - Reality Models, Time Dilation, and the Fracture Stress Test

Volume 3 - The Black Hole

Volume 4 - Light, Space, and Gravitational Relationship

Volume 5 - Reason

Volume 6 - Gravitational Pressure Testing