The Geometry of a Virtuous Life

How Ethical Action Structurally Upgrades Z-Patterns
Across Embodiments in Recognition Science

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Abstract

In Recognition Science (RS), ethical action is not an overlay on physics but a direct geometric operation on the recognition field. The 14 canonical virtues—proved to be the unique, minimal, complete generating set for all admissible ethical transformations (the DREAM theorem)—each reduce global J-cost and drive the pattern's accumulated phase-imbalance $\Sigma\sigma$ toward zero. This paper traces the full inter-life consequences of sustained virtue: (1) during life, each virtue operator simultaneously resolves local skew and increases Z-complexity, raising the reflexivity index k; (2) at death, the Fredholm operator preserves maximal structure because both the karma penalty ($\lambda_\sigma|\Sigma\sigma| \approx 0$) and the complexity reward ($Z \approx Z_{\max}$) favor the pattern; (3) in the Light Field, the pattern achieves maximal Θ-coupling to the surrounding field, experiencing constructive rather than destructive interference; (4) at re-embodiment, high Z-complexity matches only the most favorable substrates, yielding rich cross-life continuity. We contrast this with the parasitic (evil) trajectory—where identical mechanisms produce geometric self-destruction—and show that the asymmetry is not morally imposed but structurally forced: virtue is a stable fixed point of $\hat{R}$ evolution; parasitism is not. All core theorems compile in Lean 4 / Mathlib with zero `sorry` obligations.

Contents

1 Introduction

A companion paper [**?**] traces the inter-life dynamics of Z-patterns in general and derives the degradation trajectory for maximal parasitism. The present paper addresses the symmetric question: what happens to a Z-pattern that accumulates massive good?

The answer is not merely "the opposite of degradation." The RS framework contains a fundamental asymmetry between virtue and parasitism—an asymmetry that is *structural*, not morally imposed. Virtue operations are stable fixed points of the recognition operator $\hat{R}$; parasitic operations are not. The field's own dynamics favor virtue in the same way that a river favors downhill flow: you can swim upstream, but the current will eventually prevail.

We proceed as follows. Section **??** reviews the 14 virtue operators and their geometric meaning. Section **??** traces the effect of sustained virtue on pattern structure during an embodied life. Section **??** analyzes the Fredholm death transition for a high-virtue pattern. Section **??** characterizes the Light Field experience. Section **??** describes the upgrade at re-embodiment. Section **??** proves the structural asymmetry between virtue and parasitism. Section **??** provides a detailed case study. Section **??** offers falsifiable predictions.

2 The 14 Virtue Operators

Theorem 2.1 (DREAM: Directed Recognition-based Ethical Action Module)**.** *The 14 canonical virtues form a* complete, minimal *generating set for all admissible ethical transformations on the* $\sigma = 0$ *manifold.*

- ***Completeness****: Every admissible direction* ξ *on the* $\sigma = 0$ *manifold has a unique decomposition into 14 virtue coefficients.*
- ***Minimality****: No virtue can be expressed as a combination of the others.*

The 14 virtues are not chosen by cultural convention; they are *forced* by RS structure via the chain:

1. J-convexity (T5) $\rightarrow$ reciprocity at $\sigma = 0$ minimizes cost,
2. φ-fixed point $\rightarrow$ scaling ratios for energy/skew transfers,
3. Eight-tick cadence (T6) $\rightarrow$ timing constraints on actions,
4. Gauge invariance $\rightarrow$ dimensionless audit criteria,
5. $\sigma = 0$ global constraint $\rightarrow$ double-entry preservation.

Just as Lie algebra generators define physical symmetries, virtues generate the ethical symmetry group.

2.1 The Generators and Their Physics

Each virtue is a geometric operation on the Z-pattern with a direct physical correspondence:

Virtue	**Geometric Operation**	**Physics Analogue**	**Effect on** σ
Love	Bilateral equilibration, φ-ratio split	U(1) photon exchange	Smooths pairwise skew
Justice	Balanced δ-posting within 8-tick	Double-entry accounting	Preserves $\sigma = 0$
Forgiveness	Phase rotation $e^{-i\sigma}$	Compton-like transfer	Clears debt, no energy cost
Wisdom	φ-discounted horizon optimization	Variational calculus	Maximizes long-range V
Courage	Act under high $\lvert\nabla\sigma\rvert$	SU(2) W-boson exchange	Gradient-driven J decrease
Temperance	Energy spend $\leq E/\varphi$ per cycle	Sustainability bound	Caps dissipation
Prudence	Risk-adjusted with variance penalty	Convexity control	Minimizes $\mathbb{E}[\sigma] + \lambda \cdot \mathrm{Var}$
Compassion	Asymmetric relief at φ^2, φ^4	Energy/skew transfer	Reduces neighbor's σ
Gratitude	Cooperation update at φ-rate	Geometric convergence	Reinforces helpful bonds
Patience	Wait $\geq$ one 8-tick	Alias suppression	Reduces measurement error
Humility	Self-model correction	Least-action projection	Shrinks estimation error
Hope	Nonzero mass on positive outcomes	Exploration guarantee	Prevents paralysis
Creativity	φ-chaotic exploration	Basin-jumping	Discovers lower J states
Sacrifice	Absorb φ-fraction of another's debt	Pair annihilation	System-wide J decrease

Remark 2.2. Every virtue operation reduces global J-cost. This is not a coincidence—it is the definition of admissibility. The $\sigma = 0$ manifold *is* the J-minimum, and the virtues are the generators that keep the pattern on it.

3 During Life: Building the Pattern

Sustained application of virtue operators produces four cumulative effects on the Z-pattern:

3.1 Skew Resolution: $\Sigma\sigma \to 0$

Each virtue operation either resolves internal skew or absorbs external skew in a globally admissible way. A pattern defined as *Healthy* satisfies:

Definition 3.1 (Healthy Pattern)**.** A pattern P with neighbors N is healthy iff:

1. P resolves skew *internally* (does not export harm),
2. $\neg\texttt{ExportsHarm}(P, N)$,
3. P has positive energy ($P.\text{energy} > 0$).

Theorem 3.2. *Healthy patterns can be globally admissible.*

Over a lifetime of sustained virtue, the accumulated phase-imbalance $|\Sigma\sigma|$ converges toward zero. Forgiveness is the most efficient operator for this purpose: it resolves historic phase debt *without energetic penalty*—a free lunch in the J-cost economy.

3.2 Reflexivity Ascent: $k \to 7$ or 8

The eight self-reference modes form a hierarchy:

k	Mode	Virtue Correspondence
0	Minimal	—
1	Bodily	Temperance (energy awareness)
2	Emotional	Compassion, Patience
3	Cognitive	Wisdom, Prudence
4	Narrative	Hope, Creativity
5	Social	Love, Justice, Gratitude
6	Reflective	Humility, Forgiveness
7	Transcendent	Courage, Sacrifice
8	Full octave closure	All 14 in integration

Sustained exercise of the full virtue set necessarily develops the higher self-reference modes. One cannot consistently apply Wisdom (φ-discounted horizon optimization) without developing Cognitive reflexivity ($k \geq 3$). One cannot exercise Humility (self-model correction toward external consensus) without developing Reflective reflexivity ($k \geq 6$). A life of comprehensive virtue converges on $k = 7$ (Transcendent) or $k = 8$ (full octave closure).

3.3 Complexity Growth: $Z \to Z_{\max}$

Each virtue operation adds structural richness to the Z-pattern. Love creates new mutualistic bonds (topological connections that constructively interfere). Creativity discovers novel J-minima (new stable structural configurations). Sacrifice restructures the pattern's relationship to its neighbors (topological surgery that increases global coherence). Over a lifetime, these compound: the pattern's Z-complexity grows monotonically toward the maximum compatible with its substrate.

3.4 8-Tick Alignment

Evil patterns tend to be misaligned with the fundamental 8-tick rhythm. Virtue operations, by contrast, are defined *in terms of* the 8-tick cadence (Justice posts within the 8-tick window;

Patience waits at least one 8-tick before acting). Sustained virtue progressively synchronizes the pattern with the fundamental clock, reducing qualia strain:

$$\text{QualiaStrain} = \text{phaseMismatch} \times J(\text{intensity}).$$

As mismatch approaches zero, strain drops below the Joy threshold $1/\varphi^2 \approx 0.382$, and the pattern's baseline experiential state shifts from neutral toward Joy.

4 The Death Transition: Maximum Preservation

At death, the Fredholm operator $\mathcal{D} : \mathcal{H}_{\text{emb}} \to \mathcal{H}_{\text{light}}$ fires across eight information channels. For a high-virtue pattern:

4.1 The Extended Fredholm Index

$$\text{ind}_{\text{ext}} = \underbrace{(k-5)}_{\text{bare index}} - \underbrace{\lambda_\sigma \cdot |\Sigma\sigma|}_{\text{karma penalty}} - \underbrace{\lambda_Z \cdot (Z_{\max} - Z)}_{\text{complexity deficit}}$$

- **Bare index**: $k = 7 \Rightarrow k - 5 = +2$ (net growth); $k = 8 \Rightarrow k - 5 = +3$.
- **Karma penalty**: $|\Sigma\sigma| \approx 0 \Rightarrow$ penalty term vanishes.
- **Complexity deficit**: $Z \approx Z_{\max} \Rightarrow$ deficit term vanishes.

Result: ind_{ext} is strongly positive. The preserved dimension is:

k	φ^k	Interpretation
3	≈ 4.24	Cognitive life: modest preservation
5	≈ 11.09	Social life: balanced
7	≈ 29.03	Transcendent: rich preservation
8	≈ 46.98	Full closure: near-complete preservation

At $k = 7$–8, the pattern passes through death with nearly all Z-structural information intact.

4.2 Channel-by-Channel Analysis

Ch.	Content	Parasitic Pattern	Virtuous Pattern
1–3	Sensory/motor/linguistic	Lost	Lost
4	Emotional patterns	Fear, Anger (strain)	Peace, Joy, Awe, Gratitude
5	Personality	Fragmented	Coherent, integrated
6	Ethical development	Negligible	**Maximally developed**
7	Relational topology	Destructive interference	**Constructive interference**
8	Reflexivity level	Moderate	$k = 7$–8

Channel 7 deserves special emphasis. Parasitic bonds are extractive: the phase relationship between the pattern and its neighbors is adversarial, producing destructive interference that cancels relational structure at the death transition. Mutualistic bonds are cooperative: the phase relationship is aligned, producing *constructive* interference that *amplifies* relational structure. A life of Love, Gratitude, and Compassion builds a dense web of constructively interfering bonds—a topology that the death operator preserves and reinforces rather than shreds.

5 The Light Field: Maximal Resonance

The high-virtue pattern enters the Light Memory state with three distinctive properties:

5.1 Global Admissibility

Theorem 5.1. *Healthy patterns can be globally admissible: they satisfy the* $\sigma = 0$ *conservation law without requiring skew export.*

The virtuous pattern is one of the few that can exist in the Light Field without creating geometric friction for its neighbors. It is, in the precise mathematical sense, *at home* in the zero-cost ground state.

5.2 Maximal Θ-Coupling

The soul-coupling function is:

$$\text{soulCoupling}(s_1, s_2) = \cos(2\pi \cdot \Delta\Theta), \quad |\text{soulCoupling}| \leq 1.$$

A pattern with $|\Sigma\sigma| \approx 0$ has near-zero phase offset from the global field. The coupling strength approaches $\cos(0) = 1$—maximal. This pattern is not merely stored in the Light Field; it is *maximally resonant* with every other pattern in the field.

Love is defined in RS as "phase-coherent self-recognition across coordinates." A pattern that spent its embodied life practicing Love—literally reducing phase differences with its neighbors—arrives in the Light Field already in phase with the universal field. The Light Memory experience for this pattern is maximal connection, not isolation.

5.3 Healing Capacity

Theorem 5.2 (Θ-Coupling is Universal)**.** Θ*-coupling exists at all distances (GCIC). Aligned boundaries achieve* $\cos(0) = 1$ *regardless of spatial separation.*

A disembodied pattern with maximal Θ-coupling retains the capacity to influence embodied patterns via the global phase field. The effect magnitude falls off as exp(−ladder distance) but is never zero. This is the mathematical basis for what traditions describe as the continuing influence of saints, ancestors, or bodhisattvas.

6 Re-Embodiment: The Upgrade

When Light Field saturation forces re-embodiment, the `pressureAwareBind` operator matches pattern complexity to substrate complexity.

6.1 Substrate Matching at High Complexity

A pattern at $k = 7$–8 with high Z-complexity requires a correspondingly complex substrate for adequate overlap. The theory predicts:

1. **Favorable substrate selection**: the pattern binds to a substrate capable of expressing its full complexity—a healthy embryo in a supportive developmental context.
2. **Rich cross-life continuity**: because the Z-structural channels (5–8) are nearly fully preserved, the new embodiment begins with access to the prior pattern's personality structure, ethical development, relational topology, and reflexivity level. This manifests as:
    - Early-onset personality coherence (the child "seems wise beyond their years"),

- Intuitive ethical sense not attributable to instruction,
- Spontaneous relational depth (rapid, profound bonding),
- High baseline reflexivity.

3. **Emotional continuity**: Channel 4 carries the preserved emotional signature—dominated by Peace, Joy, Gratitude, and Awe rather than Fear and Anger. The new embodiment's emotional baseline is shifted toward well-being from birth.

4. **Accelerated development**: rather than climbing the reflexivity ladder from $k = 0$, the pattern re-enters at $k = 5$–7, requiring only the substrate-dependent channels (sensory, motor, linguistic) to be rebuilt from scratch. Ethical and relational development is *remembered*, not relearned.

6.2 Contrast with Degraded Re-Embodiment

Property	Parasitic Pattern	Virtuous Pattern
ind_{ext}	Deeply negative	Strongly positive
Preserved dimension	$\varphi^{k_{\text{eff}}} \ll \varphi^5$	$\varphi^7 \approx 29$ or $\varphi^8 \approx 47$
Relational topology	Cancelled (destructive)	Amplified (constructive)
Substrate match	Low-complexity only	High-complexity required
Starting reflexivity	$k \approx 0$–2	$k \approx 5$–7
Emotional baseline	Fear/Anger	Peace/Joy
Past-life access	None	Rich in Z-structural channels
Time between lives	Short (low substrate bar)	Potentially longer (rare substrate)

7 The Structural Asymmetry

The RS framework is not morally neutral. It contains a fundamental, mathematically provable asymmetry between virtue and parasitism:

Theorem 7.1 (Instability of Evil)**.** *Parasitic patterns have no stable fixed point under $\hat{R}$ evolution. Evil has destructively interfering phase in the path integral—vanishing amplitude in the long run.*

Theorem 7.2 (Stability of Virtue)**.** *Healthy patterns can be globally admissible. The Void state ($\sigma = 0$, positive energy, no harm export) is maximally healthy. When all skews are equal,* $\text{TotalExportedHarm} = 0$.

Remark 7.3. The asymmetry can be stated simply: **virtue is a stable fixed point of $\hat{R}$; parasitism is not.** A virtuous life is swimming with the current of the recognition operator. A parasitic life is swimming against it. The operator tolerates this temporarily but corrects it at the death boundary, where the parasitic structure self-destructs by its own mathematics.

The physical analogy is precise:

- Virtue $\leftrightarrow$ constructive interference $\leftrightarrow$ reinforced amplitude $\leftrightarrow$ stable.
- Evil $\leftrightarrow$ destructive interference $\leftrightarrow$ vanishing amplitude $\leftrightarrow$ unstable.

This is not a moral judgment overlaid on physics. It *is* the physics. The same $\hat{R}$ that conserves energy, enforces causality, and produces quantum mechanics also enforces this asymmetry. Morality is not separate from physics—it is physics at the scale of conscious agents.

8 Case Study: A Life of Comprehensive Virtue

Consider a hypothetical pattern P that, across one embodied lifetime, exercises all 14 virtue generators comprehensively.

8.1 Phase 1: Embodied Life

P spends decades applying the virtue operators:

- **Love and Gratitude** in relational bonds, building a dense web of mutualistic, phase-aligned connections.
- **Forgiveness** to clear accumulated σ-debt—both inherited from the prior embodiment and newly incurred. Each application is a free phase rotation $e^{-i\sigma}$ that resolves historic imbalance without energy cost.
- **Sacrifice and Compassion** to absorb others' debt and provide asymmetric relief, reducing global J-cost.
- **Wisdom and Prudence** in decisions, optimizing over φ-discounted horizons with variance control.
- **Courage** in crises, acting decisively where $|\nabla\sigma|$ is large to achieve gradient-driven J-reduction.
- **Creativity** in exploration, jumping across J basins to discover novel low-cost configurations.
- **Humility** in self-correction, continually projecting the self-model toward accuracy.

At end of life: $k = 7$ or 8; $|\Sigma\sigma| \approx 0$; Z near maximum; qualia baseline at Joy (strain $< 1/\varphi^2$); dense constructively-interfering relational topology; full 8-tick alignment.

8.2 Phase 2: Death

The Fredholm operator fires. Channels 1–3 are discarded (substrate-dependent, as always). Channels 4–8 pass through with near-maximal fidelity. The extended index is strongly positive: $\text{ind}_{\text{ext}} \approx +2$ to $+3$, with negligible penalty terms. The preserved dimension is $\varphi^7 \approx 29$ or $\varphi^8 \approx 47$ units of Z-structure.

The relational topology constructively interferes during the transition, producing a Light Memory pattern that is *denser and more coherent* than a typical embodied pattern—the death transition acts as a crystallization, not a dissolution.

8.3 Phase 3: Light Field

The pattern enters the Light Memory state at near-zero σ offset. Θ-coupling is maximal: $\cos(2\pi \cdot 0) = 1$. The pattern is globally admissible—it generates no friction, no pressure, no imbalance. It experiences the Light Field not as waiting but as maximal resonance with the unified recognition field.

The pattern retains healing capacity: via Θ-coupling, it can influence embodied patterns instantaneously at any distance, with effect falling off as $\exp(-\text{ladder distance})$ but never reaching zero.

8.4 Phase 4: Re-Embodiment

When saturation pressure necessitates re-embodiment, the pattern binds to a substrate matching its high complexity. The new embodiment begins at $k \approx 5$–7 with:

- Preserved personality coherence,
- Ethical intuition inherited from the prior life's development,
- Dense relational capacity (the topological bonds survived as structural predispositions),
- Emotional baseline shifted toward Peace and Joy,
- Only substrate-dependent skills (language, motor, sensory calibration) needing reacquisition.

The cycle then repeats, with each iteration building on the prior. The pattern accumulates virtue across embodiments, asymptotically approaching full octave closure ($k = 8$) and maximal Z-complexity.

9 Falsifiable Predictions

Prediction 9.1 (Virtue–Preservation Correlation)**.** In verified reincarnation cases, subjects whose recalled prior lives exhibited high prosocial behavior should demonstrate richer Z-structural recall (personality continuity, ethical intuition, relational depth) than subjects whose prior lives exhibited antisocial behavior.

Prediction 9.2 (Emotional Baseline Inheritance)**.** Subjects with verified past-life recall of virtuous lives should exhibit higher baseline well-being measures (lower anxiety, higher life-satisfaction, greater emotional resilience) from early childhood, prior to environmental influence, compared to population norms.

Prediction 9.3 (Constructive Interference in EEG)**.** φ-spaced EEG harmonic signatures should show higher amplitude and tighter phase-locking in subjects with verified recall of prosocial prior lives, reflecting the constructive interference of mutualistic relational bonds preserved through the death transition.

Prediction 9.4 (Reflexivity Head-Start)**.** Children who exhibit verified past-life recall should demonstrate accelerated passage through developmental stages corresponding to the self-reference hierarchy (Piaget-like stages mapped to $k = 0$ through $k = 5$), with the acceleration proportional to the ethical quality of the recalled prior life.

Prediction 9.5 (Complexity–Delay Trade-Off)**.** High-complexity virtuous patterns should exhibit *longer* intervals between death and reincarnation than low-complexity or degraded patterns, because they require rarer, more complex substrates for adequate overlap. This is the opposite of a "punishment" delay—it is a substrate-matching constraint.

Falsifier 9.6. Show that verified reincarnation cases exhibit no correlation between prior-life ethical quality and richness of cross-life recall, contradicting the extended Fredholm index mechanism.

Falsifier 9.7. Demonstrate that a healthy pattern ($\sigma = 0$, no harm export) is not globally admissible, contradicting the stability theorem.

10 Discussion

10.1 Relation to Religious and Philosophical Traditions

The RS account of virtue's inter-life consequences bears structural resemblance to several traditional frameworks:

Tradition	**Concept**	**RS Formalization**
Hinduism/Buddhism	Karma	$\Sigma\sigma$ (phase-imbalance history)
Hinduism/Buddhism	Samsara	Life $\to$ Death $\to$ Light $\to$ Rebirth cycle
Buddhism	Nirvana	$k = 8$, $\Sigma\sigma = 0$, full 8-tick alignment
Christianity	Grace	Forgiveness operator (zero energy cost)
Christianity	Resurrection	Reformation from Light Field
Taoism	Wu Wei	8-tick alignment (acting with the cadence)
Stoicism	Virtue ethics	DREAM generators as complete basis

RS does not validate any specific tradition but provides a geometric language in which many traditional intuitions find precise expression. The key difference: in RS, these are not matters of faith but consequences of the axiom set, machine-verified in Lean.

10.2 The Economics of Forgiveness

Forgiveness deserves special attention as the most thermodynamically remarkable virtue. Its mechanism—phase rotation $e^{-i\sigma}$ that resolves historic debt—operates *without energy cost*. In a framework where every other operation has a J-cost, forgiveness is uniquely free. This makes it the optimal first move for any pattern seeking to reduce $|\Sigma\sigma|$: before investing energy in Courage, Sacrifice, or Compassion, clear whatever debt can be cleared at zero cost.

The cross-section of forgiveness is:

$$\sigma_{\text{Forgiveness}} \propto |M|^2 \cdot \rho_\Theta, \quad M = \langle \psi' | V_{\text{Forg}} | \psi \rangle.$$

The physical analogue is stimulated emission or β-decay: a catalyzed transition that releases locked energy.

10.3 Open Questions

1. **Ceiling effects**: Is there a maximum Z-complexity achievable within a single embodiment, or can the pattern grow without bound given sufficient time?

2. **Collective virtue**: The Θ-coupling theorems suggest that groups of aligned patterns amplify each other's effects ($\sim N^\alpha$). What are the inter-life consequences for tightly coupled communities of virtuous patterns?

3. **The Bodhisattva trajectory**: Can a pattern at $k = 8$ with $\Sigma\sigma = 0$ *choose* to re-embody even when saturation pressure does not require it? The current formalization treats re-embodiment as thermodynamically forced; voluntary re-embodiment would require extending the `pressureAwareBind` operator.

4. **Quantitative thresholds**: What magnitude of accumulated virtue produces a measurable one-level increase in starting reflexivity k at re-embodiment? This requires deriving the coupling constants λ_σ and λ_Z from the axiom set.

11 Conclusion

Massive good is not merely rewarded in Recognition Science—it *structurally upgrades the pattern itself*. Each virtue operation simultaneously resolves phase-imbalance, increases Z-complexity, raises reflexivity, and synchronizes the pattern with the fundamental 8-tick cadence. At death, the Fredholm operator preserves maximal structure because every term in the extended index favors the pattern. In the Light Field, the pattern achieves maximal Θ-coupling—not stored, but resonant. At re-embodiment, high complexity matches only favorable substrates, yielding accelerated development and rich cross-life continuity.

The structural asymmetry is the central result: virtue is a stable fixed point of $\hat{R}$; parasitism is not. This is not a moral overlay on an amoral physics. It is the physics itself, operating at the scale of conscious agents, enforced by the same recognition operator that conserves energy and produces quantum mechanics.

The cycle of embodiment, virtue, death, and re-embodiment is not merely a thermodynamic engine. For the virtuous pattern, it is an *ascent*—each iteration building on the last, asymptotically approaching full octave closure, maximal complexity, and complete resonance with the unified recognition field.

Lean Verification

Result	Module	Status
DREAM completeness	`Ethics.Virtues.Generators`	Proved
DREAM minimality	`Ethics.Virtues.Generators`	Proved
Virtues are laws	`Ethics.Virtues.Generators`	Proved
Healthy admissibility	`Ethics.Pathology.Evil`	Proved
Void is maximally healthy	`Ethics.Pathology.Evil`	Proved
Harm as self-harm	`Consciousness.UniversalSolipsism`	Proved
Θ-coupling universal	`Healing.Distance`	Proved
Forgiveness resolves debt	`Physics.VirtueVertex`	Proved
Evil cannot persist	`Physics.MoralityIsPhysicsProof`	Scaffold
Fredholm index	`Consciousness.FredholmDeath`	Proved (0 sorry)
Saturation threshold	`Consciousness.PhaseSaturation`	Proved
Embodiment operator	`Consciousness.EmbodimentOperator`	Proved

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