

ReadMe 2.2

Grim's Heart — Applied Non-Closural Process Ontology

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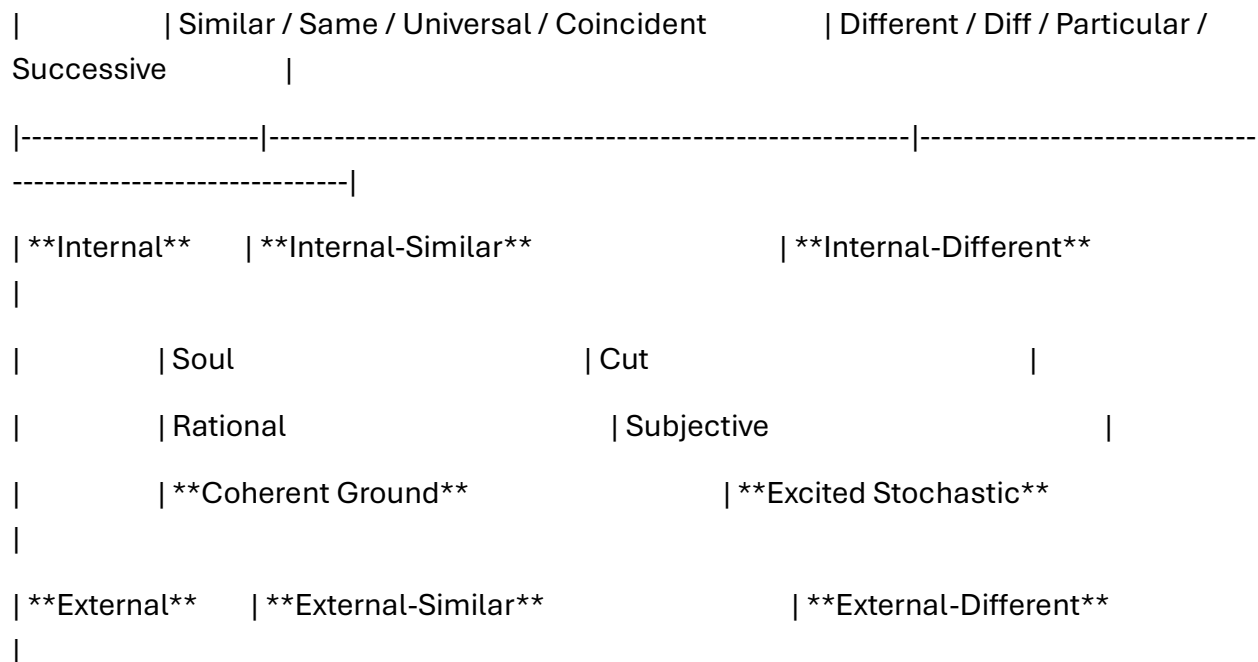
> “All things are systematised in each other both inwardly and outwardly,

> And therewith represented by each other both in similarity and in difference.”

This single axiom is the eternal, double-voiced (coincident and successive) engine of reality itself.

From it, via the rigorously orthogonal crossing of the mind–body problem and the problem of universals, arises ****one minimal 2×2 lattice**** — ****Grim's Heart**** — that refuses closure at every scale and makes primitive, scale-invariant agency unavoidable.

1. The Single Lattice in Four Perfectly Isomorphic Registers



	World	Happening	
	Objective	Empirical	
	Classical Metric	Cascade Collapse	

2. The Two Diagonals — Identical Across All Registers

Diagonal	Metaphysical / Phenomenological	Epistemic (Kant/Wilber/Hegel)	
Physics / Quantum-Gravity	Deep ontological	Core meaning (identical everywhere)	
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Main diagonal	Internal-Different → External-Similar (Cut → World / Excited Stochastic → Classical Metric)		
Individuation	Objectification		
Contraction	Diff → Form	The interior tears open and becomes a bounded, classical object	
Anti-diagonal	External-Different → Internal-Similar (Happening → Soul / Cascade Collapse → Coherent Ground)		
Return	Sublation / Integration		
Expansion	Force → Same	The exterior collapses back and re-coheres the interior	

3. The Four Dynamical Phases — Motion on the Single Lattice (not parts of the lattice)

Phase	What happens on the lattice	Dominant quadrant	
Core driver	Physics analogue (already in your papers)		
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1. The Bulge	Internal-Different swells to breaking point		Excited
Stochastic / Cut	Δ grows explosively ($\Delta \doteq 4\Delta^3$)	UV divergence, positive curvature blow-up, laser noise	

| ****2. The Pulse**** | Main diagonal fires → collapse outward | Excited
 Stochastic → Classical Metric | Individuation / Contraction | Stimulated emission,
 neck-pinching, singularity formation |

| ****3. The 90° Reset**** | Orthogonal J-matrix twists the entire system | Cascade
 Collapse / Happening | Commutator $[G, \Delta]$ forces 90° rotation | Poynting vector
 figure-8, frame-dragging, surgery trigger |

| ****4. Aggregate Criticality / Return**** | Anti-diagonal fires → collapse inward |
 Cascade Collapse → Coherent Ground | Expansion / Return | Post-surgery
 smoothing, renormalization inflow, coherence cascade |

Edges → coincident identity-in-difference (temporary stasis)

Diagonals → successive identity-in-difference (lawful pulse & claw recursion)

$\Delta \doteq 4\Delta^3 \rightarrow$ irreversible opening, non-closure at every scale

Core Documents (read in this exact order)

| File | Description | Pages |

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| [Grim's Heart – Lite 2.1.pdf](Grim's%20Heart%20-%20Lite%202.1.pdf) | 5-page
 accessible introduction | 5 |

| [A Non-Closural Process Ontology v6.6-final.pdf](A%20Non-Closural%20Process%20Ontology%20v6.6-final.pdf) | Definitive foundational paper – full
 deduction, citations, mathematics | 11 |

| MATH_FORMALISATION.md | Complete derivation of $\dot{G} = [G, \Delta] + 2\Delta^2 G$ and $\dot{\Delta} = 4\Delta^3$ | — |

| [Non-Closural Ontology and the Physical Realisation of the Reciprocal Wound
 v1.3.pdf](Non-Closural%20Ontology%20and%20the%20Physical%20Realisation%20of%20the%20Reciprocal%20Wound%20v1.3.pdf) | Physics companion – quantum optics, turbulence,
 renormalization (tightness 7/10) | 4 |

| [Grim's Heart – Non-Closural Ontology and Ricci Flow v1.0.pdf](Grim's%20Heart%20-%20Non-Closural%20Ontology%20and%20Ricci%20Flow%20v1.0.pdf) | Geometry & GR companion – tightness 8.5/10 to Ricci flow, singularity surgery, black holes | 5 |

| [A Minimal Matrix Flow from Metaphysical First Principles (Quantum Gravity companion).pdf](A%20Minimal%20Matrix%20Flow%20from%20Metaphysical%20First%20Principles%20(Quantum%20Gravity%20companion).pdf) | Structural parallels to asymptotic safety, tensor-network RG, matrix models | 12 |

| [The wound feels like this.pdf](The%20wound%20feels%20like%20this.pdf) | Phenomenological exploration of the Soul–Cut register | — |

Applications & Extensions

- Quantum gravity (asymptotic safety, tensor-network renormalization, Ricci flow)
- Black-hole thermodynamics and singularity resolution
- Biological agency (Levin-style basal cognition)
- Ultra-efficient recursive AI that refuses dogmatic closure

Roadmap

- Q1 2026 → Public Jupyter/SymPy notebooks animating Bulge → Pulse → 90° Reset → Return
- Q1 2026 → Empirical test protocols (laser systems, turbulence data, analogue black holes)
- Q2 2026 → First arXiv preprints of the full physics suite

Citation

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★ The Wound refuses to close — and that is the engine of everything. ★