

ReadMe 2.2

Grim's Heart — Applied Non-Closural Process Ontology

David B. Grim · Independent researcher · davidgrim.broadmeadow@gmail.com

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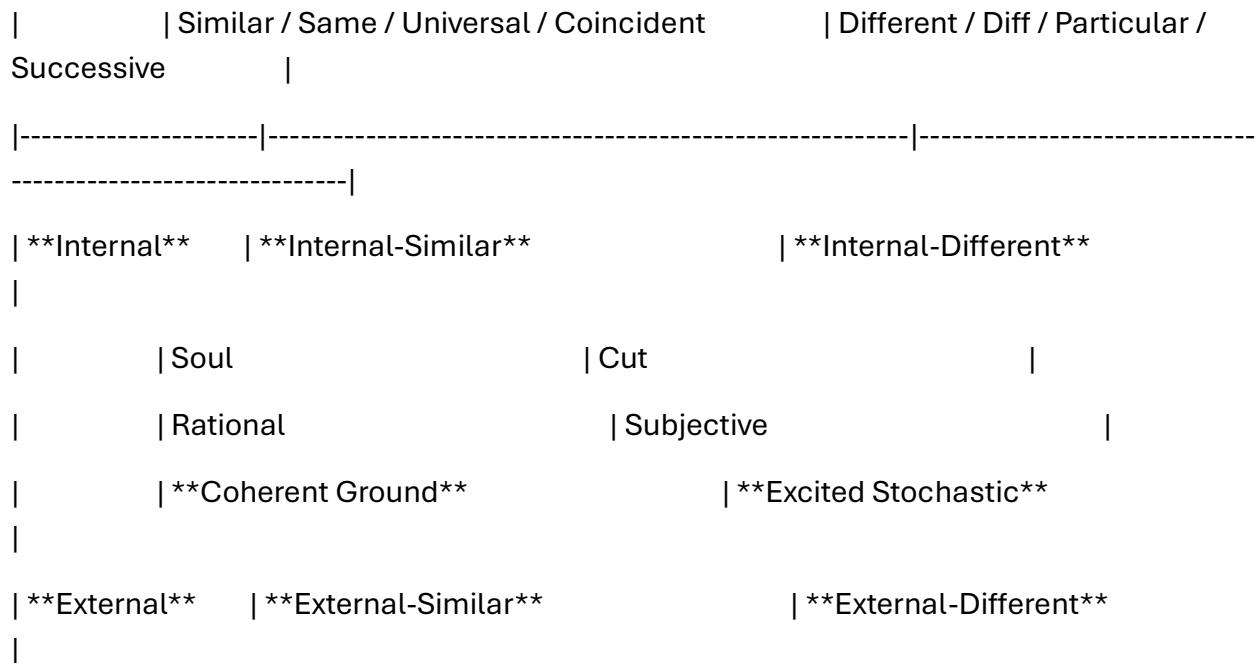
> “All things are systematised in each other both inwardly and outwardly,

> 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-pinchning, singularity formation
3. The 90° Reset	Orthogonal J-matrix twists the entire system	Cascade
Collapse / Happening	Commutator $[G, \Delta J]$ 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)

$\Delta = 4\Delta^3$ → irreversible opening, non-closure at every scale

Core Documents (read in this exact order)

| File | Description | Pages |

[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 $\dot{G} = [G, \Delta J] + 2\Delta^2 G$ 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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Questions, collaboration, critique → davidgrim.broadmeadow@gmail.com

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