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# 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 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.

## The Single Lattice in Four Perfectly Isomorphic Registers

	Similar / Same / Universal / Coincident		Different / Diff / Particular /
Successive			
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<b>**Internal**</b>	<b>**Internal-Similar**</b>		<b>**Internal-Different**</b>
	Soul	Cut	
	Rational	Subjective	
	<b>**Coherent Ground**</b>	<b>**Excited Stochastic**</b>	
<b>**External**</b>	<b>**External-Similar**</b>		<b>**External-Different**</b>
	World	Happening	

	Objective	Empirical	
	<b>**Classical Metric**</b>	<b>**Cascade Collapse**</b>	

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 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](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 | 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 and singularity surgery | 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 simulating the matrix flow
- 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. ★