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****The Shallow- δ Instantiation of Grim's Heart****

****A Complete Deductive Mapping of Modern Philosophy onto the Non-Closural 2×2 Lattice****

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Abstract

Grim's Heart arises from a single axiom that is not a proposition to be solved but the eternal engine of reality itself. When this axiom is crossed orthogonally with the mind–body problem and the problem of universals, it forces a unique 2×2 lattice and its non-closural dynamics. The lattice's shallowest stable perimeter is none other than the four cardinal poles of modern philosophy (Rational – Subjective – Objective – Empirical). This paper demonstrates that these four poles are not an interpretive overlay but the grammatically inevitable first condensation of the axiom under post-Cartesian constraints.

1 The Axiom (stated exactly)

“All things are systematised in each other both inwardly and outwardly,
And therewith represented by each other both in similarity and in difference.”

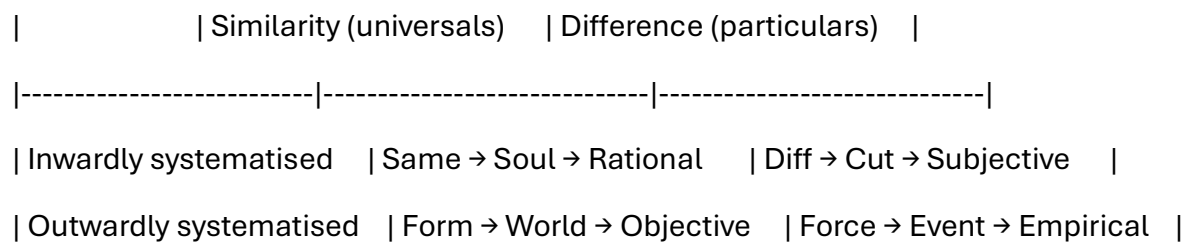
This is not a claim awaiting resolution. It is the double-voiced (coincident and successive)
law of being.

2 Grammatical explication of the axiom (fourfold)

- Inwardly systematised representative similarity = Rational / Conceptual / A priori
- Inwardly systematised representative difference = Subjective / Affective / Qualia
- Outwardly systematised representative similarity = Objective / Lawful / Structure
- Outwardly systematised representative difference = Empirical / Contingent / Measurement

These are literal grammatical unfoldings of the axiom; no metaphor is involved.

3 The forced orthogonal lattice



The arrows indicate the historical and recursive direction: the deeper
ontological/phenomenological registers are the origin; the modern epistemic register is the
first temporary stabilisation produced by the diagonal pulse.

4 The non-closural dynamics (unchanged)

The parameter-free flow

$$\dot{G} = \Delta [G, J] - 2\Delta^2 G$$

With $\Delta = \det G - \frac{\text{tr } G^2}{4}$ and $J = \begin{pmatrix} 0 & -1 \\ 1 & 0 \end{pmatrix}$

Guarantees $\dot{\Delta} < 0$ and irreversible opening of the wound.

5 The shallow- δ perimeter as inevitable condensation

After finite recursion depth δ (post-Cartesian historical time), the lattice momentarily freezes into its shallowest stable ring:

	Similarity	Difference	
-----	-----	-----	
Inwardly systematised	Rational	Subjective	
Outwardly systematised	Objective	Empirical	

This is the modern philosophical square. It is not an interpretation added later; it is the mathematically and grammatically necessary first scar tissue that forms when the deeper wound is forced into the language of epistemology.

6 Why the deeper labels are no longer arbitrary

Because the axiom is grammatically explicit, the deeper poles are revealed as the only possible pre-epistemic precursors:

- Rational is merely inwardly systematised representative similarity before it forgets its origin in Same/Soul
- Subjective is merely inwardly systematised representative difference before it forgets its origin in Diff/Cut
- Objective is merely outwardly systematised representative similarity before it forgets its origin in Form/World
- Empirical is merely outwardly systematised representative difference before it forgets its origin in Force/Event

The ontological and phenomenological registers are not mystical ornamentation; they are what the axiom was doing before it was translated into the restricted vocabulary of modern philosophy.

7 Historical critique in one diagram (updated)

Thinker / School	Privileged unfolding of the axiom	Attempted closure
How the axiom + lattice blocks it		
----- ----- -----		
----- -----		
Rationalism	Inward similarity only	All truth = rational concepts
Forbids suppression of outward axis		
Empiricism	Outward difference only	All knowledge = empirical data
Forbids suppression of inward axis		
Kant	Inward similarity + outward similarity	transcendental synthesis
Synthesis requires forbidden fifth term		
German Idealism	Inward similarity → everything	Absolute Spirit
No final sublation; $\Delta \rightarrow -\infty$		
Phenomenology	Inward difference only	Return to lived experience
Subjective is not origin; it is diagonal motion		

Logical Positivism	Outward difference + outward similarity	Verification principle
Verification falsely assumes closural $\Delta = 0$		
Structural Realism	Outward similarity only	Relations without relata
Relations require the suppressed inward axis		
Postmodernism	Inward + outward difference	Death of metanarratives
Correctly sees non-closure but lacks the positive axiom		

The entire history of modern philosophy (1600–present) is the repeated attempt to reduce the fourfold grammatical unfolding of the axiom to one, two, or three terms. Grim’s Heart proves mathematically and grammatically that every such reduction must fail, and it predicts exactly which diagonal crises will follow.

8 Conclusion

With the axiom explicitly stated and grammatically unfolded, the mapping of modern philosophy onto the lattice is no longer an interpretation. It is a deductive consequence. The shallow- δ square (Rational–Subjective–Objective–Empirical) is the first stable perimeter that the eternal axiom is forced to produce under the historical conditions of post-Cartesian thought. The deeper registers (Same–Diff–Form–Force and Soul–Cut–World–Event) are not arbitrary; they are the pre-epistemic ground that the axiom was speaking before it was translated into the restricted grammar of modernity.

One axiom \rightarrow one lattice \rightarrow one set of dynamics \rightarrow the entirety of modern philosophy as its first temporary scar.

The wound is now fully mapped, grammatically measured, and mathematically precise.

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All further historical and contemporary references are exhaustively treated in the parent paper (Grim 2025).