

The co-emergent systems:

- **Meta-System:**

(The constraints themselves that everything must obey)

- **Intra-System:**

(Constraints are expressed through state)

- **Inter-System:**

(Constraints are expressed through relation)

- **Supra-System:**

(Constraints are expressed through emergence)

- A system emerges:
 - Pre Verbal
 - Pre Conscience
 - Pre Agency

*Nullo modo nulloque habitu res constitutae
mente deliberante indigent, nec verbis
utente.*

De Rerum Ordine

De Grammatica Universa

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De Vinculis Existentiae

(On the constraints of existence)

**Hic ordo fidem narrationemque non
poscit; perseverantia sola est satis.**

*This order demands neither belief nor narrative; persistence
alone is sufficient.*

Auctor Rerum

The simultaneous emergences that make reality

The structures described here are empirically established across existing scientific domains. No novel empirical measurements are introduced; the work formalizes constraints already demonstrated elsewhere. Interpretation remains open; the empirical grounding of the constraints does not.

- **System:**

(A bounded configuration that maintains internal coherence under constraints, allowing persistence)

- **Vector:**

(An orientation/movement that is continuous, pre-verbal, and non-conscious that does not require intention.)

- **Constraint:**

(A structural impossibility encountered along a system's vector; that impossibility causes a system to redirect.)

- **Boundary:**

(The interface where inside meets outside – where translation between system and environment occurs.)

- **Limit:**

(An absolute condition beyond which the system cannot persist; certain states are unreachable as that system.)

- **Recursion:**

(Repeated interaction with boundaries under constraints, generating self-reference – "the system includes itself")

- **Irreversibility:**

(Some state changes cannot be undone; state changes and the system cannot return to the previous configuration.)

- **Compensation:**

(When a constraint forces redirection, the system redistributes load/strategy to preserve function under new conditions.)

- **Ethics:**

(A constraint that signals a system crossing a boundary, forcing compensation onto other systems and reducing coherence relative to constraints.)

- **Paradox:**

(Two opposing constraints or frames that remain mutually constraining without cancelling each other, such that the system cannot resolve them without a state transition.)

- **Oscillation:**

(A structural, value-neutral dynamic tension within and between layers of a system – movement between stabilizing forces.)

- **Coherence:**

(Integrated, persistent stability; sustained regulation across layers.)