Two Super–Unified Constructions Linking Infosophy and Null Unity

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Abstract

We present two complementary super–unified equations connecting the Infosophic Field Formula (Infosophy) and the Null Unity framework. In the first, *Null Unity within Infosophy*, the Infosophic generator produces a field that Null Unity collapses to geometry. In the second, *Infosophy within Null Unity*, Null Unity is the primary machinery while Infosophy selects and steers which bilateral/topological route achieves the collapse. Both constructions terminate in the same geometric fixed point, ds^2, and yield domain–level interpretations for GR, QM, and EM. We cite the original Null Unity and Infosophy sources throughout. [1, 2]

1 Background: Components from the Source Theories

From Infosophy (generator)

Infosophy posits an adaptive resonance engine with intent and coherence control:

$$\Psi(x,t) = \mathcal{R}_{\text{adapt}}\big(\mathcal{I}_{\text{opt}} \circ \mathcal{D}_0\,,\, \mathcal{C}(\Psi)\,,\, \mathcal{A}_{\text{intent}}\big) = \sum_{n=0}^{\infty} w_n(\Psi)\,\mathcal{I}_n(\Psi)\,\phi_n(x,t;F(\Psi),\chi(\Psi),Q(\Psi)),$$

where $\mathcal{D}_0$ is *Dynamic Nothingness*, $\mathcal{I}_{\text{opt}}$ is Pareto–optimized, self–referential information, $\mathcal{C}(\Psi)$ is coherence (ledger–like validation), and $\mathcal{A}_{\text{intent}}$ is awareness/intent. [2]

From Null Unity (collapser)

Null Unity asserts multiple bilateral/topological identities that universally reduce expressions to the line–element:

$$\frac{\nabla^{-1}}{\infty} = ds^2, \qquad \frac{\varnothing}{\nabla^1 \infty} = ds^2, \qquad \frac{\varnothing}{2} = ds^2, \qquad \frac{\varnothing}{\pi} = ds^2,$$

and organizes physics so that disparate constructions collapse to the same ds^2. [1]

2 Super–Unified Equation I: Null Unity within Infosophy

2.1 Definition

$$\boxed{ds^2 \;=\; \mathrm{NU} \circ \mathcal{R}_{\mathrm{adapt}}\big(\, \mathcal{I}_{\mathrm{opt}} \circ \mathcal{D}_0 \,,\, \mathcal{C}(\Psi) \,,\, \mathcal{A}_{\mathrm{intent}} \,\big)} \tag{1}$$

Here, the Infosophic block

$$\mathcal{R}_{\mathrm{adapt}}\big(\, \mathcal{I}_{\mathrm{opt}} \circ \mathcal{D}_0 \,,\, \mathcal{C}(\Psi) \,,\, \mathcal{A}_{\mathrm{intent}} \,\big)$$

generates a candidate field Ψ from Dynamic Nothingness using optimized information, continuously reweighted by coherence and guided by intent. The NU[·] projector then *collapses* this field to geometry ds^2.

2.2 Operator meaning

We regard NU as a bilateral/topological projector implementing any of the canonical routes:

$$\mathrm{NU}[X] := \left(\frac{\nabla^{-1}}{\infty}\right)X \;=\; \left(\frac{\varnothing}{\nabla^{1}\infty}\right)X \;=\; \left(\frac{\varnothing}{2}\right)X \;=\; \left(\frac{\varnothing}{\pi}\right)X \;\longrightarrow\; ds^2.$$

All admissible routes are equivalent at the fixed point.

2.3 Domain reductions

- **GR:** Large–scale, smooth, coherence–selected Ψ collapsed by NU yields curvature constraints on ds^2 (GR–like).
- **QM:** Pareto–dominant modes $\mathcal{I}_n(\Psi)$ with weights $w_n(\Psi)$ survive to geometry under NU; amplitudes/phases reflect coherence selection prior to collapse.
- **EM:** π–null (and half–null) routes encode $U(1)$ holonomy/flux quantization as topological invariants of the collapse to ds^2.

3 Super–Unified Equation II: Infosophy within Null Unity

3.1 Definition and selection logic

Let $\mathcal{P} = \{ O_k \} = \left\{ \frac{\nabla^{-1}}{\infty}, \frac{\varnothing}{\nabla^1 \infty}, \frac{\varnothing}{2}, \frac{\varnothing}{\pi} \right\}$. Define the *Null Unity selector* (governed by intent/coherence):

$$\boxed{ds^2 \;=\; \mathrm{NU}_{\mathcal{A},\mathcal{C}}\big[\, \mathcal{I}_{\mathrm{opt}} \circ \mathcal{D}_0 \,\big]} \tag{2}$$

$$\mathrm{NU}_{\mathcal{A},\mathcal{C}}(X) \;:=\; O_{k^*}(X) \;\to\; ds^2, \qquad k^* \;=\; \arg\max_{k \in \mathcal{P}} \mathcal{C}\big(\Psi_k \,\big|\, \mathcal{A}_{\mathrm{intent}}\big), \quad \Psi_k := O_k[X]. \tag{3}$$

Here, Null Unity is *primary*; Infosophy appears as: (i) the construction of the input $X = \mathcal{I}_{\mathrm{opt}} \circ \mathcal{D}_0$, and (ii) the *selector* that, using coherence $\mathcal{C}$ and intent $\mathcal{A}_{\mathrm{intent}}$, chooses which O_k route collapses X to ds^2.

3.2 Domain reductions

- **GR:** When $\mathcal{C}$ favors smooth, large–scale coherence, the selector tends to pick inverse–gradient routes $O_k = \nabla^{-1}/\infty$, producing GR–compatible ds^2.
- **QM:** When $\mathcal{C}$ emphasizes mode–wise stability under $\mathcal{I}_{\mathrm{opt}}$ (Pareto dominance), the chosen route preserves admissible amplitudes until collapse, encoding "measurement" as coherence–survival to ds^2.
- **EM:** When $\mathcal{C}$ prizes topological regularity, the selector picks π–null or half–null routes, enforcing $U(1)$ holonomy and flux quantization at collapse.

4 Synthesis and Contrast

Both super–unified equations terminate at the same geometric invariant:

$$\forall \text{ admissible routes}, \qquad \Psi \xrightarrow{\mathrm{NU}} ds^2.$$

Their difference is governance:

- *Null Unity within Infosophy*: Infosophy *generates*, Null Unity *collapses* (1).
- *Infosophy within Null Unity*: Null Unity *governs*, Infosophy *selects/steers* (2).

In both, GR/QM/EM appear as constraint regimes of the geometric fixed point ds^2.

References

[1] Mukherjee, Hrishi. *The Null Unity System of Equations*. Simulon Research Group, 2025.

[2] Greimel, Gösta. *Übersetzte Kopie von "Infosophische Feldformel"* (Translated copy of "Infosophic Field Formula"), 2025.