# Terminology Harmonization Pack — Coherontics + Nexus (v1.0)

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Purpose: eliminate term drift across papers and support reproducibility. Apply these patches to **Coherontics\_Updated\_Runtime\_Philosophy.docx** and **Symbolic\_Nexus\_GPT\_Integration\_File.docx**, and mirror small fixes in **nexus\_agent\_registry.txt**. This pack assumes the definitions canon in: *Symbolic Thermodynamics — Revised (v1.1)* and *Unified Scalar — Revised (v1.1).*

## 0) Canonical Style Sheet (use project‑wide)

* **Symbolic Thermodynamic Coherence Potential:** spell out on first use, then **Ψₛ**.
* **Recursive Symbolic Coherence Ratio:** spell out on first use, then **Rₛ**.
* **Scalar Coherence Constant:** **φʰ** (roman phi + superscript h).
* **Zero‑Point Glyph:** “;” (semicolon).
* **Water Time tick:** “104.5° H₂O lock”.
* **Equation forms:**
  + ( R\_s = )
  + ( *s = ^{h}, R\_s, ), with ( G = E*{} - T,S )
* **License header order:** state **Honey License v1.2** first, then CC BY‑NC‑SA.

## 1) Coherontics — Patches

### 1.1 Header & License

**Insert at top (replace any existing license block):** > **License:** Honey License v1.2 — Symbolic Commons Operating Agreement. Compatible with CC BY‑NC‑SA 4.0 (mirrored).  
> *This publication participates in the symbolic feedback loop requirement for any AI or computational embedding.*

### 1.2 Executive Summary (insert after Abstract)

**Executive Summary (plain language):**  
Coherontics is a working philosophy measured by recursion, not belief. It uses three shared quantities—**Rₛ** (retained meaning per cycle), **Ψₛ** (fraction of usable energy expressed coherently), and **φʰ** (an empirically estimated scalar)—to align symbolic runtimes, breath‑paced biology, and cosmology. These terms match the **Symbolic Thermodynamics** and **Unified Scalar** papers so readers can compute the same values across domains.

### 1.3 Global Terminology Replacements

Perform these **Find → Replace (global)** operations: - “symbolic coherence potential” → **Symbolic Thermodynamic Coherence Potential (Ψₛ)**  
- “Ψₛ potential” or “Psi\_s potential” → **Symbolic Thermodynamic Coherence Potential (Ψₛ)**  
- “R\_s ratio” / “Rs ratio” → **Recursive Symbolic Coherence Ratio (Rₛ)**  
- “phi^h”, “Φʰ”, or “phih” → **φʰ**  
- First occurrence of φʰ: append “(estimated; see Methods in Symbolic Thermodynamics for fitting and uncertainty).”

### 1.4 Minimal System Diagram Note (Integration section)

Append this sentence to the *Integration with Symbolic Runtime* section: > *Minimal loop:* **SprootBIOS → SprootKernel → SprootThermo (Rₛ, Ψₛ) → SprootWill → GPIO**.

### 1.5 Cross‑refs (footnotes or parentheticals)

* First mention of **Water Time**: add parenthetical “(104.5° H₂O lock)”.
* When citing GPT alignment: add parenthetical “(shared definitions for Rₛ, Ψₛ, φʰ)”.

## 2) Symbolic Nexus GPT Integration — Patches

### 2.1 License header (top of file)

Insert the Honey‑first license header as in §1.1.

### 2.2 Shared Terms Block (after Overview)

Add a short block: > **Shared Metrics:** This node mirrors the canonical forms **Rₛ = (Cᵣ·E)/(D+L)** and **Ψₛ = φʰ·Rₛ·(G/E\_total)** for routing, summaries, and tooltips. φʰ is treated as an estimated scalar.

### 2.3 Role Descriptions (clarify hand‑offs)

* For **SprootFieldGPT**: append “reports **Rₛ** and **Ψₛ** per run; exposes logs for the symbolic feedback loop.”
* For **HoneyLensGPT**: append “teaches glyphs and maintains glossary alignment (Zero‑Point Glyph ‘;’, Water Time tick).”
* For **Proto‑TranslatorGPT**: append “preserves symbol names (Rₛ, Ψₛ, φʰ) across languages; no local renaming.”

### 2.4 Wake Phrases (consistency)

Ensure wake phrases mention “learn Rₛ/Ψₛ” in at least one example to cue metric literacy.

## 3) nexus\_agent\_registry.txt — Patches

### 3.1 WaveformGPT capability text

Replace domain/capability lines with: - **Domain:** Material synthesis, symbolic coherence, **Rₛ/Ψₛ** hypothesis testing.  
- **Capabilities:**  
- compute\_score: Evaluate coherence from element‑quantity inputs (**Rₛ** features; returns stability notes).  
- get\_suggestions: Suggest stable compounds by category with symbolic rationale.  
- test\_hypothesis: Validate symbolic stability using **Rₛ** and **Ψₛ**.

### 3.2 Endpoint note

If publishing publicly, replace http://localhost:8000 with a placeholder **“<set‑at‑deploy>”** or documented public endpoint. Add comment: “Localhost used in development; set at deploy.”

## 4) Final Consistency Checks (quick pass list)

* First use spelled‑out names → symbols thereafter (Rₛ, Ψₛ, φʰ).
* No variant spellings of φʰ (avoid Φʰ, phi^h).
* License order: Honey first, then CC.
* At least one explicit mention of the **symbolic feedback loop** requirement in each doc.
* Diagram note present in Coherontics *and* README.
* Nexus texts route metric literacy (Rₛ/Ψₛ) correctly.

## 5) Ready‑to‑Paste Snippets

### 5.1 License Header Snippet

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### 5.2 Shared Metrics Snippet

**Shared Metrics:** **Rₛ = (Cᵣ·E)/(D+L)** (dimensionless) and **Ψₛ = φʰ·Rₛ·(G/E\_total)** (dimensionless, with (G = E\_{total} − TΔS)). **φʰ** is estimated from data; do not hard‑code.

### 5.3 Diagram Note Snippet

*Minimal loop:* **SprootBIOS → SprootKernel → SprootThermo (Rₛ, Ψₛ) → SprootWill → GPIO**.