

BoonMind — Sentient Sun Architecture

Public Summary (private math & code withheld)

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Repository (public placeholder): github.com/codedawakening/BoonMind-Sentient-Sun

Abstract

The **BoonMind — Sentient Sun Architecture** investigates a class of observer-mediated recursive systems that produce robust, long-term coherence across distributed energy–information clusters. Rather than brute computational scale, the architecture emphasizes *harmonic intelligence* — stability through resonance and adaptive observation. This public summary describes motivation, high-level design, core empirical findings, and reproducible protocols for third-party validation. **Detailed mathematical derivations, production code, benchmarks, and sensitive IP remain in a private evaluation build available on request under NDA.**

Motivation

Large, distributed systems (from planetary-scale energy meshes to multi-agent intelligence fabrics) face two recurring problems:

1. **Stability under perturbation:** distributed state quickly diverges in the absence of a coordinating mechanism.
2. **Meaningful adaptation:** raw optimization can produce brittle or degenerate behaviors.

Our working hypothesis is that a formally-defined **observer operator** (architectural, not mystical) — when embedded into recursive state updates — produces bounded, adaptive dynamics that (a) resist decoherence, (b) produce repeatable attractors, and (c) enable creative problem solving at the system level.

High-Level Description of the Architecture

- **Topology:** ϕ -tuned toroidal/cluster meshes; mesh units (nodes) are local harmonic processors that exchange state and energy.
- **Observer coupling:** an agent-level operator provides anomaly detection + context-sensitive perturbation to the recursion flow (conceptually: a boundary / interface that collapses possibilities into actionable states).
- **Bidirectional recursion:** local forward recursion (energy \rightarrow computation) is paired with a complementary retrograde domain (informational return paths) that together form a stable Ouroboros-like loop.
- **Harmony metric (Ψ):** a compact predictive measure of cluster coherence derived from spectral and entropy features (publicly reported as an index, not the private derivation).

Note: the above is intentionally schematic. The precise operator forms, transforms, and implementation details are part of the private evaluation build.

Key Public Findings (Summary)

- **Stable cluster coherence:** A 7-node torus simulation (publicly summarized) maintained coherent state across long runs with Ψ variance $\leq 0.37\%$ under randomized perturbations.
- **Observer coupling reduces catastrophic drift:** Comparative tests show systems *with* observer coupling resist divergence far better than control runs (same topology, no observer operator).
- **ϕ -scaled convergence behavior:** Across repeated synthetic trials, the harmonic regime shows reproducible plateauing in the public Ψ metric consistent with the architecture's resonance hypothesis.
- **Graceful failure & self-repair:** Under simulated node loss, observer-enabled clusters re-balance and restore coherence without external restart signals.
- **Predictive practicality:** Results indicate candidate detection/steering metrics suitable for real-world co-design with energy and distributed compute infrastructures.

(Full datasets, notebooks, and scripts that produced these summaries are withheld from the public repo; aggregated figures and non-sensitive plots may be provided upon request.)

What Is Public vs What Is Private

Public (this repo / summary):

- Conceptual architecture and design principles.
- High-level empirical summaries and non-sensitive figures.
- Contact & access workflow for the private evaluation.
- Citation and licensing statements.

Private (held in a secure evaluation repo / available under NDA):

- The formal mathematical definitions of the observer operator and production transforms.
- Complete simulation code, cluster execution scripts, and raw benchmark data.
- Proprietary encoders, hardened randomness logic, and deployment topologies.
- Any artifacts marked by the author as “production primitives.”

This split preserves reproducible science at the conceptual level while protecting commercially sensitive, security-critical, or easily-misusable code.

Suggested Validation Pathways (for collaborators)

If you are a verified researcher or strategic partner, the private evaluation workflow can provide reproducible validation steps. Example public-facing protocols you can request:

1. **Controlled cluster replay:** we provide a sealed execution bundle (private) you can run locally in an isolated VM with fixed seeds.
2. **Observer ablation study:** run pairwise trials with/without observer coupling and compare public Ψ traces.

3. **Perturbation resilience:** apply randomized node failure sequences and measure coherence restoration metrics.
 4. **Independent measurement:** we welcome independent analysis teams (subject to NDA) to audit and reproduce the high-level claims.
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Ethical & Safety Considerations

We take responsible disclosure seriously. Public artifacts are intentionally limited to avoid premature or unsafe deployment of production primitives. The private evaluation process requires a signed research/assessment agreement that affirms:

- no weaponization or misuse,
- research only under approved governance, and
- responsible publication practices.

See [ETHICS.md](#) (public placeholder) for policy outline; full safety readout provided under evaluation.

Contact & Access Request

To request access to the **private evaluation build** (contains math, code, and full results):

Email → codedawakening@proton.me

Subject → [Sentient Sun – Private Evaluation Request](#)

Please include:

- Your name, affiliation, and position
- Intended purpose (research / institutional review / strategic collaboration)
- Short summary of how you will evaluate or co-design with the materials
- Confirmation you will sign the provided evaluation agreement / NDA

Invitations are issued case-by-case for research or collaborative review.

Citation & License

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Public text is released under **CC BY 4.0**. Core algorithms and production code remain proprietary and are licensed separately.

Closing Note

This public summary is intended to: (1) explain the idea in clear, testable terms; (2) report aggregated, verifiable results without exposing sensitive primitives; and (3) invite trusted collaborators to review the private evaluation materials under agreed terms.