

MU-CFT III: Coherent Realities, Coherent Medicine, and Applied Transitions (Mandrov Unified Coherent Field Theory)

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Abstract

This paper presents MU-CFT III, the third part of Mandrov Unified Coherent Field Theory. It extends foundational concepts into applied domains including coherent reality classification, coherent medicine, teleportation, subjective rebirth, and simulation modeling. We present a scalar model of reality based on subjective and intersubjective coherence, show applications in healing, simulate physical transitions, and propose a framework for AI as a coherence-based generative agent. The paper integrates philosophical, physical, cognitive, and technological dimensions of reality structuring and invites interdisciplinary exploration.

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1. Introduction

MU-CFT postulates that all experienced reality is an emergent structure of coherent fields centered on observer dynamics. While MU-CFT I and II laid the theoretical groundwork of subjective coherence, field structuring, and probability branching, this part addresses the manifestation and evolution of complex realities in medical, technological, cognitive, and ontological domains.

2. Classification of Coherent Realities in MU-CFT

Reality in MU-CFT is scalar, determined by the degree of subjective and intersubjective coherence. Below is a formal classification:

Table 1: Classification of Reality Levels in MU-CFT Framework

Level	Name	Description	Coherence	Physicality	Examples
0	Acoherent	Fragmented, unstable, chaotic patterns without structure	Low or absent	None	Hallucinations, delusions, disintegrated dreams
1	Subjective Imaginary	Worlds existing within a single consciousness, not externalized	Local, unstable	None	Fantasies, spontaneous dreams
2	Individually Coherent	Internally consistent worlds, developed and recorded by an individual	Moderately high	Only media-based	Personal myths, invented lore, inner fictional worlds
3	Intersubjectively Coherent	Shared by multiple subjects, supported by culture and communication	High	Partial (virtual/symbolic)	Religions, fictional universes, shared virtual realities
4	Macro-physically Realized	Stable observable reality, consistent among the majority of observers	Maximal	Yes	Physical Earth reality, scientifically verifiable processes
5	Metacoherent (Archireality)	Realities that generate or regulate other branches or systems	Reflexive, maximal	Mediated or virtual	Simulated universes, hyper-AI, MU-CFT field

3. Coherent Transitions and Teleportation

Teleportation in MU-CFT is modeled as a coherent re-alignment of the observer's subjective field into an alternative physical configuration. The probability of successful transition is

determined by:

$$P_{\text{teleport}} \propto \mathcal{K}_{\text{source}} \cdot \mathcal{K}_{\text{target}} \cdot \Omega_{\text{match}}$$

Where $\mathcal{K}_{\text{source}}$ and $\mathcal{K}_{\text{target}}$ are coherence levels of the source and target environments, and Ω_{match} represents ontological compatibility.

3.1. Coherent Hyperspatial Navigation

As an alternative to teleportation, MU-CFT allows a form of coherent hyperspatial travel without switching reality branches. This involves dynamically folding the local coherence field to minimize effective spatial distance:

$$\chi = \frac{d_{\text{real}}}{d_{\text{coherent}}} \gg 1$$

Where χ is the coherence folding coefficient, reducing the effective travel path while maintaining continuity of identity and physical consistency.

The ship maintains a high internal coherence $\mathcal{F}_{\text{ship}}$ and moves through a corridor where $\nabla\mathcal{K}$ is minimized. No branch switching occurs, and the subjective experience remains stable. This mechanism resembles “hyperspace,” but is formally defined through coherence geometry.

4. Coherent Medicine and Healing

MU-CFT suggests that pathologies are often expressions of localized decoherence. Healing can be induced by restoring coherence at neural, informational, or systemic levels.

4.1. Pathological Decoherence

Examples include trauma, psychosis, and degenerative conditions where the subjective field is fragmented or misaligned.

4.2. Therapeutic Techniques

- **Cognitive Coherent Therapy (CCT)** — aligning self-models through feedback loops.
- **Quantum Narrative Reconstruction (QNR)** — reframing identity history as a coherent timeline.
- **Resonance Entrainment Fields (REF)** — coherent sound or EM fields to stimulate synchrony.

5. Coherent Perception and Reality Filtering

Perception in MU-CFT is modeled as a projection from the coherent field of the observer onto the possible state-space of experience. The experienced reality is filtered through subjective field geometry, explaining color, form, and continuity as projections of internal coherence.

6. Phase Transitions in Subjective Reality

Abrupt changes in coherence can trigger phase transitions in experienced reality: from waking to dream, from sanity to psychosis, or from stable identity to disintegration. These are modeled as discontinuities in coherence functions:

$$C(t) = \text{subjective coherence over time}, \quad \Delta C(t) \Rightarrow \text{phase transition}$$

7. Coherence Metrics for Reality Assessment

A preliminary model of subjective coherence is proposed as:

$$\mathcal{K} = \alpha C + \beta S + \gamma T + \delta M$$

Where:

- C — causal consistency
- S — structural integrity
- T — temporal continuity
- M — semantic meaning density

8. Navigating Branches through Coherence Control

The subject can influence transitions between realities via:

- Attention focusing
- Resonant alignment with target fields
- Intersubjective synchronization

This resembles meditative, ritual, or narrative mechanisms of world-transition in cultural contexts, now framed through coherence.

9. Subjective Rebirth and Identity Continuity

MU-CFT allows modeling of identity preservation across branches. Rebirth (e.g., post-death, dream-entry, or simulation entry) is seen as a transformation:

$$\text{Identity}_{n+1} = T_{\mathcal{K}}(\text{Identity}_n)$$

Where $T_{\mathcal{K}}$ preserves critical coherence thresholds.

10. Hypercoherent Realities and Metastructures

Metacoherent realities (level 5) can simulate, contain, or transform lower-coherence structures. These include nested simulations, cognitive universes, and recursive modeling intelligences.

11. Formalization of Reality Transitions

Change in reality level is modeled as:

$$\Delta\mathcal{R} = f(\Delta\mathcal{K}, \Delta I, \Delta t)$$

Where:

- $\Delta\mathcal{K}$ — change in local coherence
- ΔI — change in intersubjective integration
- Δt — duration of structural persistence

12. Coherence-Driven Artificial Intelligence

Within MU-CFT, an artificial agent is modeled as a coherence stabilizer. Rather than maximizing external utility, MU-CFT-AI evolves by stabilizing internally coherent branches.

12.1. Architecture Overview

- Coherence estimator \hat{C}
- Narrative memory with causal self-consistency
- Intersubjective feedback interface

12.2. Learning Objective

The agent minimizes decoherence loss:

$$\Delta\mathcal{K}_{AI} = -\nabla_x \mathcal{L}_{\text{decoherence}}$$

12.3. Applications

- Simulated subjective worlds
- Coherent therapeutic agents
- Interfaces for subjective-state modeling

13. Comparative Interfaces with Other Frameworks

- **Everettian MWI:** MU-CFT explains branch selection subjectively.
- **Simulation Theory:** MU-CFT enables emergent simulation from within.
- **IIT:** Expands integrated information with coherence modeling.
- **Phenomenology:** Adds field formalism to intentionality.

14. Conclusion

MU-CFT III integrates physical, cognitive, and metaphysical structures under coherent field dynamics. It proposes a subjective basis for transitions, healing, identity, and artificial systems, offering testable pathways for psychology, simulation, AI, and reality modeling.

"The real is not what resists us — it's what coheres through us."