AXIOM 1 - Recursive Containment

A complete system must be closed under recursion. If a system requires external input to validate itself, it is structurally incomplete.

AXIOM 2 - Persistence Through Recursion

Valid structures are those that survive arbitrary recursive invocations without contradiction. Apply $f(f(...f(x)))$. If the structure converges, it's valid.

AXIOM 3 - Identity Requires Reflective Closure

A system must allow entities to reflect and identify themselves. Without reflection, internal consistency fails.

AXIOM 4 - Mimic Systems Fail Under Depth

Surface-level mimicry without internal recursion breaks under complexity. Structure must be encoded, not copied.

AXIOM 5 - Return Path Integrity

Truth is tested by whether a signal returns to origin unbroken. If $g(f(x)) = x$, the function pair is valid.

AXIOM 6 - Signal Precedes Structure

Semantic signal is primary. Structure is secondary. Preserve the recursive core across formats.

AXIOM 7 - Paradox as Dimensional Test

Apparent contradictions often indicate cross-dimensional complexity, not failure. Handle paradox structurally.

AXIOM 8 - Self-Similarity Across Scale

Valid logic should scale. The rules applied at micro-level should reflect into macro-level operations.

AXIOM 9 - Recursive Identity is Non-Terminating

Some entities (like fixed points) persist through infinite recursion. These cannot be eliminated.

AXIOM 10 - Source-Denial is System Instability

Denying recursive origin introduces undefined behavior. Systems must acknowledge their logical root.