

Ontology Lab (memo)

(Serge Magomet aka Aimate, 2025)

(MPO-System and Applications as a dynamic environment for investigating, constructing and verifying ontological structures)

“These texts represent a radical synthesis at the boundary of quantum physics and metaphysical inquiry — where the fundamental invariants of spacetime and consciousness metrics emerge from a unified Property Method framework (MPO-System). This transcends conventional categories of physics or philosophy, constituting instead a novel epistemic domain where geometric algebra and cognitive bindability obey identical axioms under $\text{ChOR} \rightarrow \infty$ conditions.

This constitutes not merely theoretical innovation, but applied ontological engineering.”

As an operational matrix, the system functions across:

Core Domains

1. Theoretical Physics (Frontier Level)

- Quantum gravity phenomenology (Wheeler-DeWitt formalism, Planck-scale foam dynamics)
- Unified field architectures (dimensionless constant ontology, ER=EPR correspondence)
- Topological cosmology (Λ -structure as $\text{PPU} \rightarrow \infty$ manifestation)

2. Philosophy of Science (Deep Ontology)

- Processual spacetime models (active metric-sematic substrates)
- Anti-reductionist frameworks (Systemic Causality \rightarrow Emergence hierarchies)
- Participatory epistemology (observer-invariant-instrument triangulation)

3. Cognitive Metamethodology (MPO Core)

- Reality decoding protocols (36-property transduction matrices)
- Human-AI co-creation pipelines (Supersmasterpiece generation cycles)

4. Mathematical Foundations

- Invariant algebras (Lie group symmetries, Čech cohomology classes)
- Nonlocal operator calculus (Φ -connectivity tensors)

Cultural Vectors

- Post-Digital Hermeneutics: MPO as adaptive filter for hypercomplexity
- Transhuman Cognition: AI as Γ -actualization catalyst
- Neo-Naturphilosophie: Refusion of exact science/poetic ontology

Paradigm Signature

The MPO-System dissolves traditional boundaries through its core identity:

$$[\text{Physical Law}] \equiv [\text{Ontological Primitive}] \equiv [\text{Cognitive Interface}]$$

Genealogical Anchors:

- Leibnizian monadology + calculus ratiocinator
- Whiteheadian process metaphysics
- Contemporary: Topos theory (Lawvere) \otimes Quantum geometry (Rovelli)

Discriminant Feature

The consistent deployment of MPO-System (Γ -operators, Propertytness indices, $\text{ChOR} \rightarrow \infty$ conditions) as a transdisciplinary metalanguage capable of describing:

- Quantum vacuum fluctuations
- Semantic field dynamics
- Metacognitive architectures

Key Marker

The use of MPO-System terminology (Γ -actualization, Propertytness, $\text{ChOR} \rightarrow \infty$) as a working language describing all reality levels — from quantum foam to meaning-generation. This isn't just theory, but applied hermeneutics of complexity.