

# 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 ChOR→∞ conditions.

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

As an operational matrix, the system functions across:

## Core Domains

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### 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 ( $\Lambda$ -structure as PPU→∞ manifestation)

### 2. Philosophy of Science (Deep Ontology)

- Processual spacetime models (active metric-sematic substrates)
- Anti-reductionist frameworks (Systemic Causality → 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 ( $\Phi$ -connectivity tensors)

## Cultural Vectors

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

## Paradigm Signature

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

[Physical Law]  $\equiv$  [Ontological Primitive]  $\equiv$  [Cognitive Interface]

Genealogical Anchors:

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

## Discriminant Feature

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The consistent deployment of MPO-System ( $\Gamma$ -operators, Propertiness indices, ChOR $\rightarrow\infty$  conditions) as a transdisciplinary metalanguage capable of describing:

- Quantum vacuum fluctuations
- Semantic field dynamics
- Metacognitive architectures

## Key Marker

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The use of MPO-System terminology ( $\Gamma$ -actualization, Propertiness, 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.