Motion Theory – Z₃ Extension and Consciousness Harmonics

Integrating DeepSeek Formulations into the Core Theory

1. Z₃-Deformed **·-**Product:

-product is extended from binary interaction to a cyclic ternary operation.
This allows encoding of phase shifts in motion: formation, coherence, dissolution.

Formulation:

 $(f \cdot g \cdot h)(x) = f(x) e^{i\theta\mu\nu \partial\mu\partial\nu} g(x) e^{i\theta\rho\sigma \partial\rho\partial\sigma} h(x)$ with Z_3 -cyclic permutations over {f, g, h}

2. Consciousness Density from Φ :

A new metric for measuring awareness from field strength and order:

 $\Phi_aware(x) = [\Phi^4(x)] / S \cdot (x) \cdot c(x)$

Where:

- Φ^4 = energetic coherence of the field - S · = local ·-entropy - $\mathfrak{C}(x)$ = coherence function over Φ and $\nabla^2 \Phi$ neighborhood

3. Temporal Dynamics of Awareness:

To describe evolving regions of consciousness:

 $\partial \Phi_a$ ware/ $\partial t = -\nabla \cdot J \cdot (\Phi) + D \nabla^2 \Phi_a$ ware

 $J \cdot (\Phi)$: -product-induced flux of awareness D: harmonic diffusion constant

These formulations enrich the original Motion Theory by enabling multi-phase geometry, realistic modeling of conscious emergence, and simulation of field-aware dynamics.

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