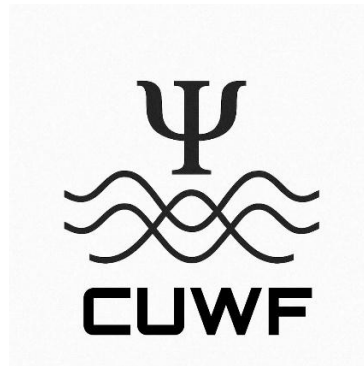




Chayut Universe Wave Function

CUWF Master Equation Guide II

Understanding the CUWF Master Equation:

The Raw Unified Form

Title: CUWF Master Equation Guide II - Understanding the CUWF Master Equation:

The Raw Unified Form

A Step-by-Step Conceptual Guide to the Ontological Skeleton of the CUWF Master Equation

Author: Chayut Techasamran

Affiliation: Independent Researcher, Thailand

Correspondence: cuwfwave@gmail.com

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Abstract

This guide is the second volume in the Master Equation Guide series. It focuses on the Raw Unified Form of the CUWF Master Equation:

$$dS/d\tau = - \nabla_F G(X, g, N_{\text{eff}}, \Xi_{\text{eff}})$$

Guide I introduced the Human-Readable Gateway Form, which allowed the reader to understand CUWF evolution through a simplified canonical update:

$$U(\tau + \Delta\tau) = U(\tau) - \nabla G[U(\tau)] \Delta\tau$$

That form was designed as a conceptual doorway. It allowed the reader to hold the basic structure of CUWF evolution in one mental picture: a canonical state is evaluated, a direction is extracted, the entropic descent direction is selected, and the system advances by one evolution-order step.

Guide II moves one level deeper.

The Raw Unified Form is not designed primarily for beginners, nor is it intended as a direct computation manual. Instead, it serves as the ontological skeleton of the CUWF Master Equation. It states the deepest structural principle of the framework: the full universe-state $S(\mathbf{T})$ evolves by moving opposite the generalized functional gradient of a single generator functional across the entropic manifold.

This guide explains why CUWF requires a universe-state $S(\mathbf{T})$, why its evolution is written as $dS/d\mathbf{T}$, why the generator functional G must depend on X , g , N_{eff} , and $\bar{\Xi}_{\text{eff}}$ together, why ∇_F must be understood as a generalized functional-gradient operator rather than a spatial gradient, and why the minus sign continues to express entropic descent at the full-state level.

A central theme of this guide is that the Raw Unified Form reveals the structural unity behind CUWF evolution. It does not display every internal engine explicitly. Collapse motion, geometry update, renormalization structure, deeper coupling, domain projection, and observer-level rendering remain hidden inside the compact architecture. This is not a weakness of the form. It is its role.

The Raw Unified Form gives the skeleton. Later technical expressions may unfold the engine.

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