# 📘 CFT & C-QFT Glossary and Symbol Index

## 🔷 Core Fields & Terms

• η(x, t): Time-viscosity field. Governs resistance to time-flow. High η = slow local time.

• T(x, t): Tension in the η-field. Represents stress/strain that drives cosmic dynamics.

• Chronode: A localized particle-like structure of compressed time. The source of η-tension fields.

• a(t): Cosmic scale factor — rate of universe expansion.

• f(η): Remapping function from internal CFT time to observed cosmic time.

## 🔷 Core Constants & Parameters

• α: Spatial decay scale for tension field T(r).

• β: Exponential shape parameter (0 < β < 1); determines tension fall-off behavior.

• p: Temporal viscosity decay exponent (0 < p < 1); controls η(t) decline rate.

• ℏ\_η: Modified Planck constant in η-based quantum domain; arises from η-gradient fluctuations.

## 🔷 Important Equations

• Tension Decay (around chronodes): T(r) = exp(−(r/α)^β)

• Viscosity Decay (cosmic time): η(t) = η₀ ⋅ exp(−(t/t\_c)^p)

• Remapped Expansion Function: a(t) = a₀ ⋅ exp(f(t; η(t)))

• C-QFT Lagrangian: L\_CFT = −½ T(x,t) ∂^μ η ∂\_μ η − V(η) + L\_int(η, ψ)

• Uncertainty Principle in C-QFT: Δx ⋅ Δ(∂\_x η) ≥ ℏ\_η

## 🔷 Derived Phenomena

• η-damping: Natural suppression of high-frequency behavior in the field; avoids infinities.

• η-remapping: Process of adjusting theoretical time to align with observed cosmic clock rates.

• FCE (Final Causal Equilibrium): Hypothetical future where η-flow halts, expansion stops, and cosmic motion ceases.