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**DET Institutional Compliance Packet**

# I. Side-by-Side Derivations (DET vs Standard Models)

## Gravity

• Standard: a = GM/r² (Newtonian)

• DET: ah = ∂(Φh)/∂h = ∂(Pe / ψ)/∂h

## Time Dilation

• Standard: t = t₀ / sqrt(1 - v²/c²) (Relativity)

• DET: t = ψ / ψ̇

## Redshift

• Standard: z = Δλ / λ₀ = (1 + z) from expanding space

• DET: z = (ψ\_source - ψ\_observer) / ψ\_observer

## Electromagnetism

• Standard: Maxwell’s Equations with E, B fields

• DET: E = -∇Φh - ∂(ψPe)/∂t, B = ∇ × (ψPe)

## Quantum Collapse

• Standard: Probabilistic collapse via Born Rule

• DET: Rc = ψ̇ / ψ (Collapse occurs when coherence decays past rebound threshold)

# II. Constants Derived from DET

G (Gravitational Constant): G = (Pe · r²) / (ψ · σ · M)

h (Planck Constant): h = (Pe · λ² · c) / 4π

α (Fine-Structure Constant): α = (Pe · σ · λ) / (h · c)

μ₀ (Magnetic Permeability): μ₀ = (2 · ψ · t) / r

ε₀ (Electric Permittivity): ε₀ = (ψ · σ²) / Pe

m (Mass): m = (Pe · ψ · σ) / c²

# III. Falsifiability Tests (F01–F05)

## F01 — Scalar Delay in Light Propagation

DET Equation: Δt = (Δσ / c) · (1 + Pe / ψ)

## F02 — ψ-Null Levitation Test

DET Equation: ah = ∂(Pe / ψ) / ∂h

## F03 — Delayed Quantum Collapse via ψ Reinforcement

DET Equation: Rc = ψ̇ / ψ

## F04 — Scalar Field Perception via DMT Symbol Tracking

DET Equation: S = f(σ, ψ, τ)

## F05 — Scalar Memory Drift in Radioactive Decay

DET Equation: λ = ψ̇ / ψ, t1/2 = (ψ / ψ̇) · ln(2)

# IV. Formalism Replacement: DET vs Tensor & Lagrangian Frameworks

DET replaces tensors and Lagrangian formalism with scalar rebound mechanics.  
Instead of defining curvature or geodesics, DET defines conservation through the following scalar quantities:  
• Φh: Scalar potential = Pe / ψ  
• ψ: Coherence field  
• σ: Dispersion coefficient  
• τ: Torsional rebound  
  
Field behavior is conserved via scalar shell balance and echo feedback, not geometric invariance.  
Shell layers emit, rebound, and retain memory according to scalar thresholds — yielding all observed interactions.