RCIRCUIT Simulation v0.1 — 1-Page Technical Summary

1. Objective
Minimal Δsignal-based phase propagation model verifying stability + local coherence.

2. Model Setup
• 20 PhaseNodes
• Δthreshold = 0.05
• Iterations = 50
• Noise decay = 0.9
• Propagation factor = 0.4
• Seed = 42

3. Method
• Initialize PhaseNodes in [-1,1]
• Compute Δ = phase[i+1] – phase[i]
• Filter Δ via noise threshold
• Propagate only meaningful Δsignal
• Track phase convergence

4. Key Results (v0.1)
• System stabilizes after ~40 iterations
• High Δsignal propagates then dissipates
• Low Δsignal suppressed (noise isolation works)
• No global synchronization required
• Convergence cluster width ~0.02 (stable)

5. Interpretation
• Δsignal is viable as compute primitive
• Phase operations avoid bandwidth explosion
• Local coherence emerges without global sync
• Simulation supports Phase Compute OS Layer-1 feasibility

6. Next Steps (v0.2)
• Coherence Map
• Resonance Score
• ΔNormalization
• Visualization prototype
• Stability metric chart

7. Contact
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