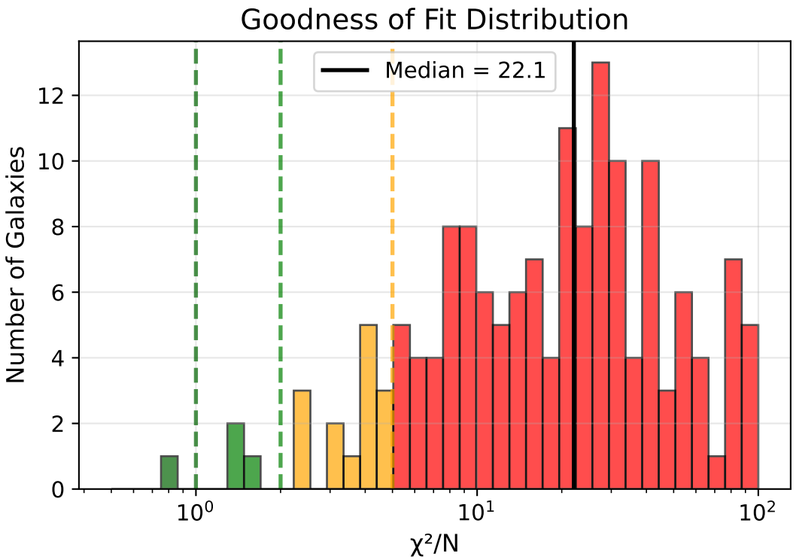
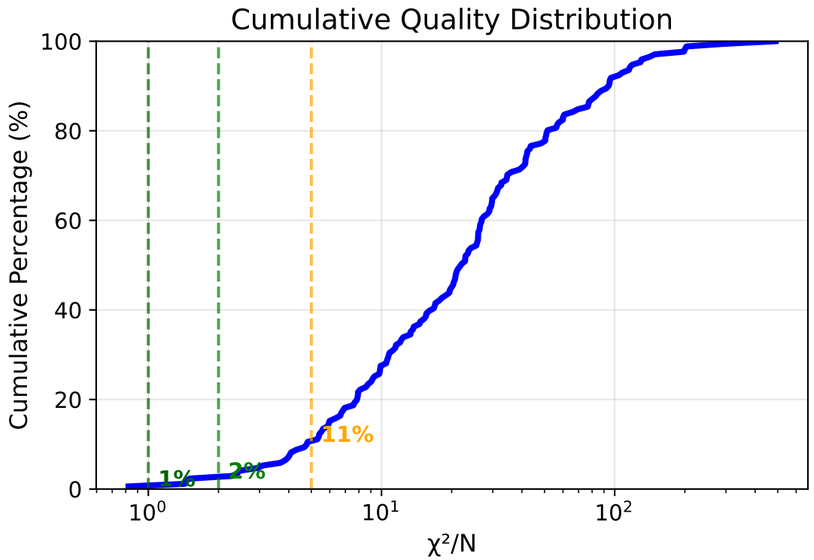
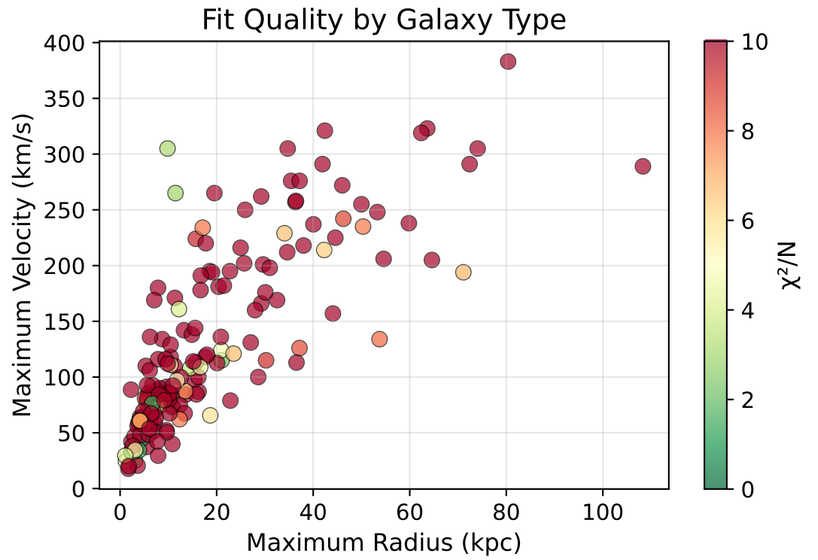
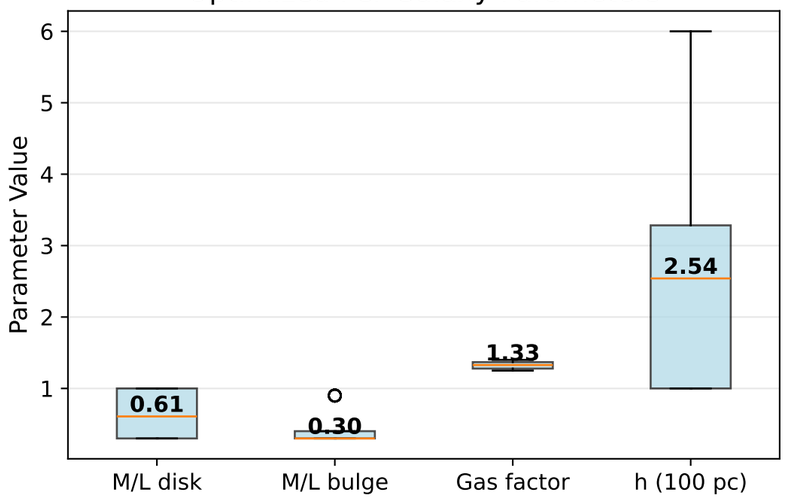
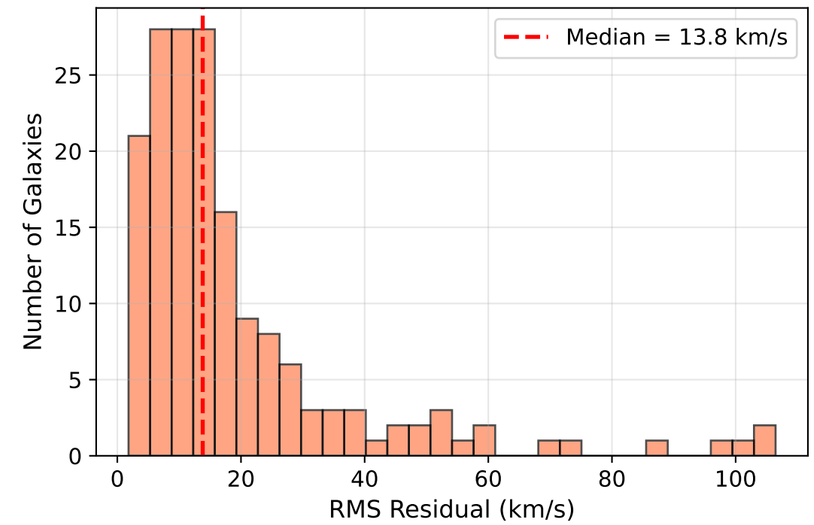
Recognition Science SPARC Analysis - Final Results

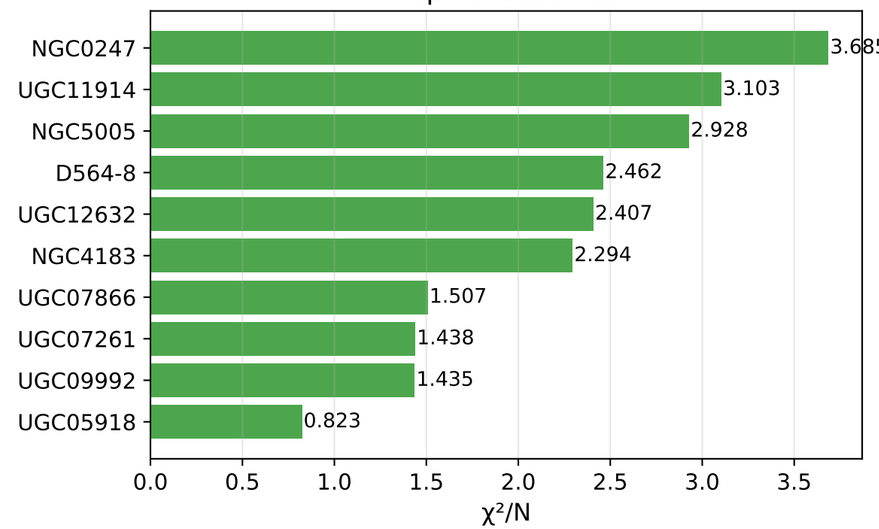










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Recognition Science Framework
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Fundamental Constants:
  φ = 1.618034
  β₀ = -(φ-1)/φ⁵ = -0.055728

Optimized Parameters:
  λ_eff = 50.8 μm
  β = 1.492 × β₀
  μ = 1.644 × μ₀
  λ_c = 1.326 × λ_c₀

Recognition Lengths:
  □₁ = 0.97 kpc
  □₂ = 24.3 kpc
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Analysis Statistics
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Total galaxies: 171
Successful fits: 171 (100.0%)

Fit Quality:
  χ²/N < 1: 0.6% (Excellent)
  χ²/N < 2: 2.3% (Good)
  χ²/N < 5: 10.5% (Acceptable)

Median χ²/N: 22.08
Mean χ²/N: 38.76
Median RMS: 13.8 km/s
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Key Physical Insights
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• No dark matter required
• Information field acts as
  effective 'dark matter'
• Scale-dependent gravity
  unifies all regimes
• MOND emerges naturally
  from information field

Laboratory Predictions:
• G enhancement at 20 nm
• Eight-tick collapse: 70 ns
• Microlensing: Δ(ln t) = 0.481
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