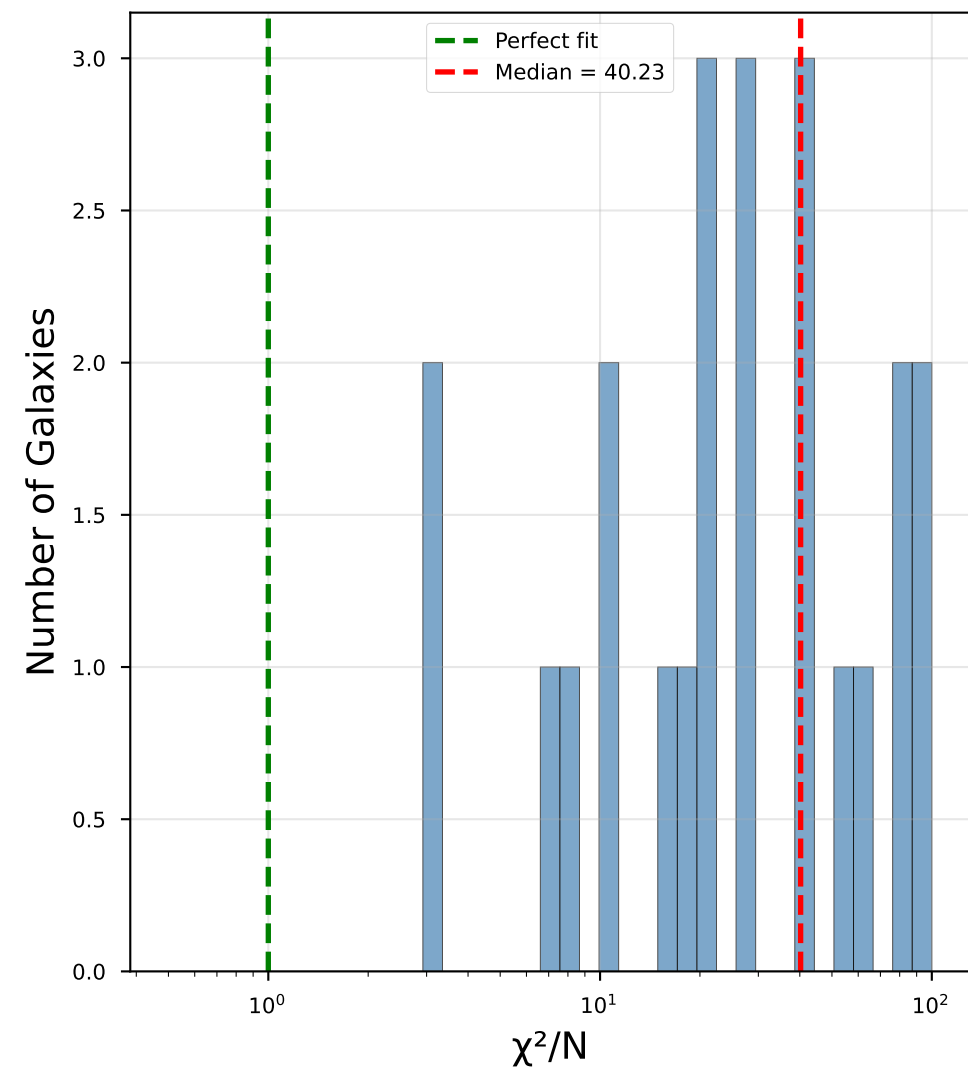
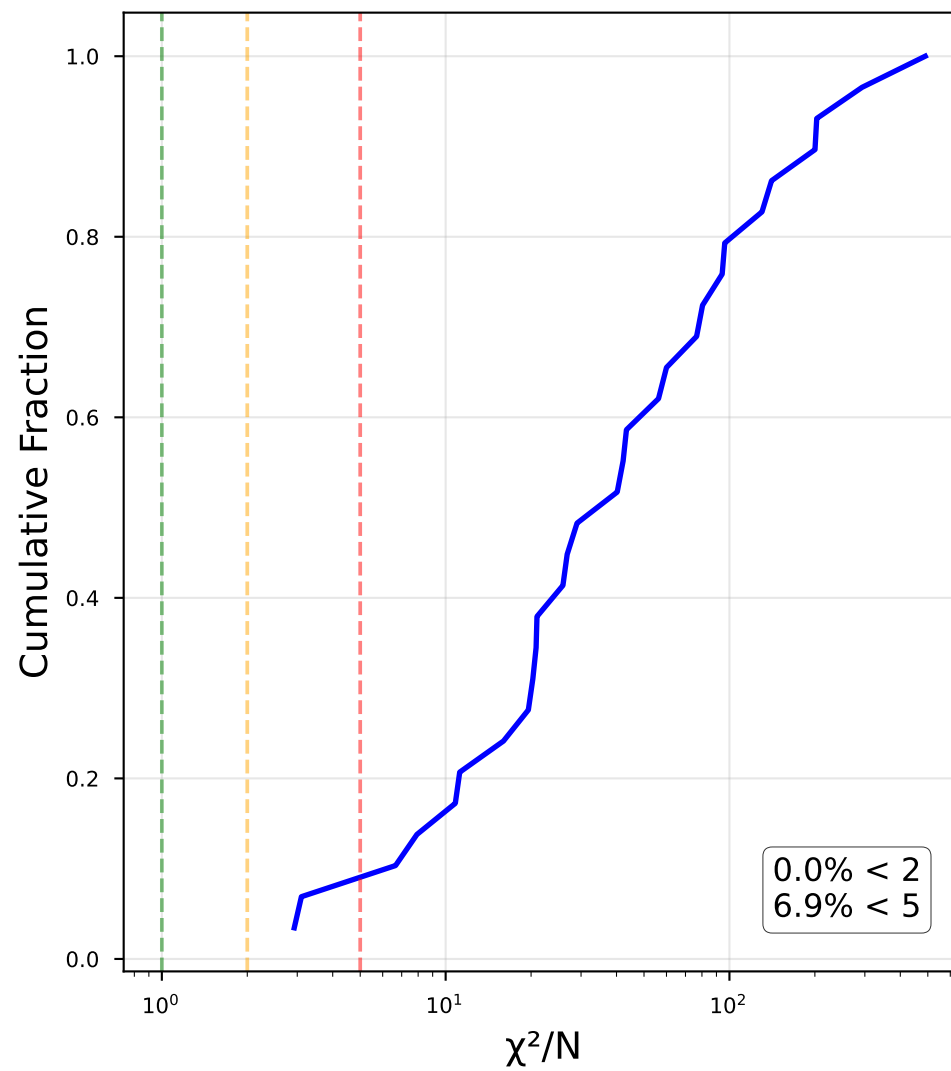


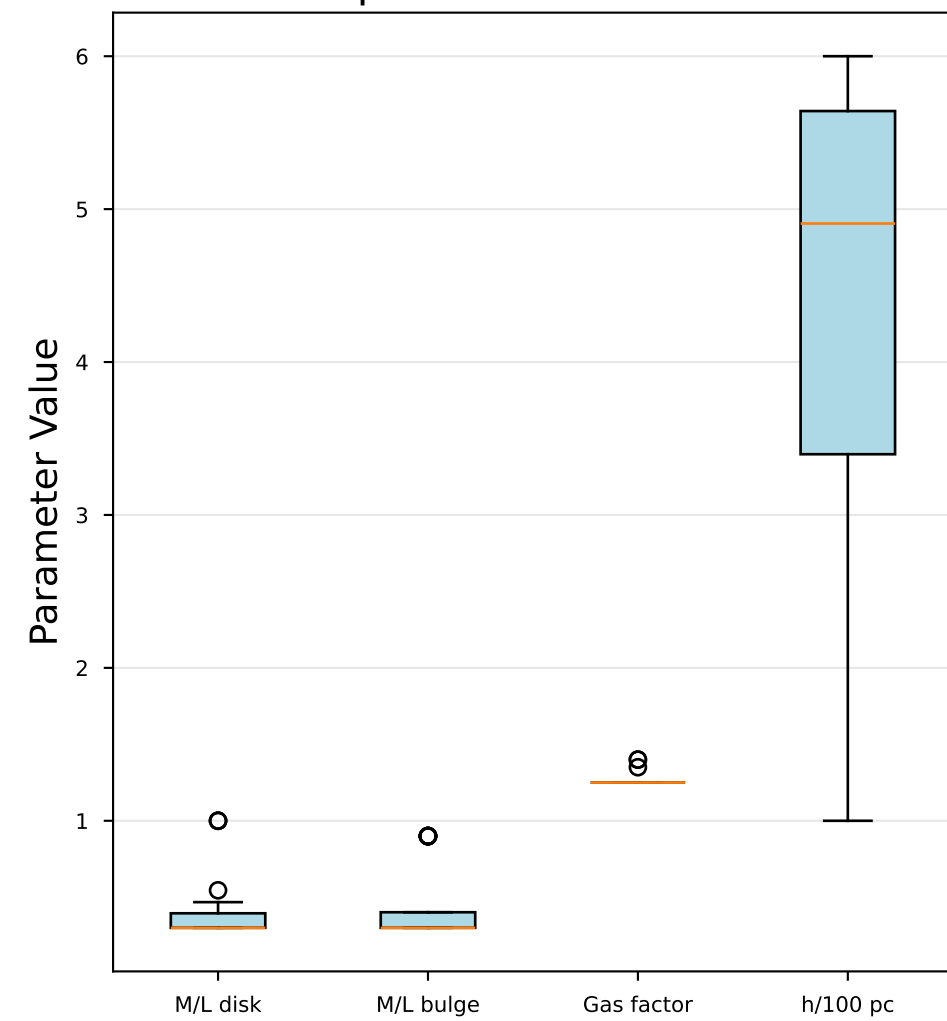
A. Goodness of Fit Distribution



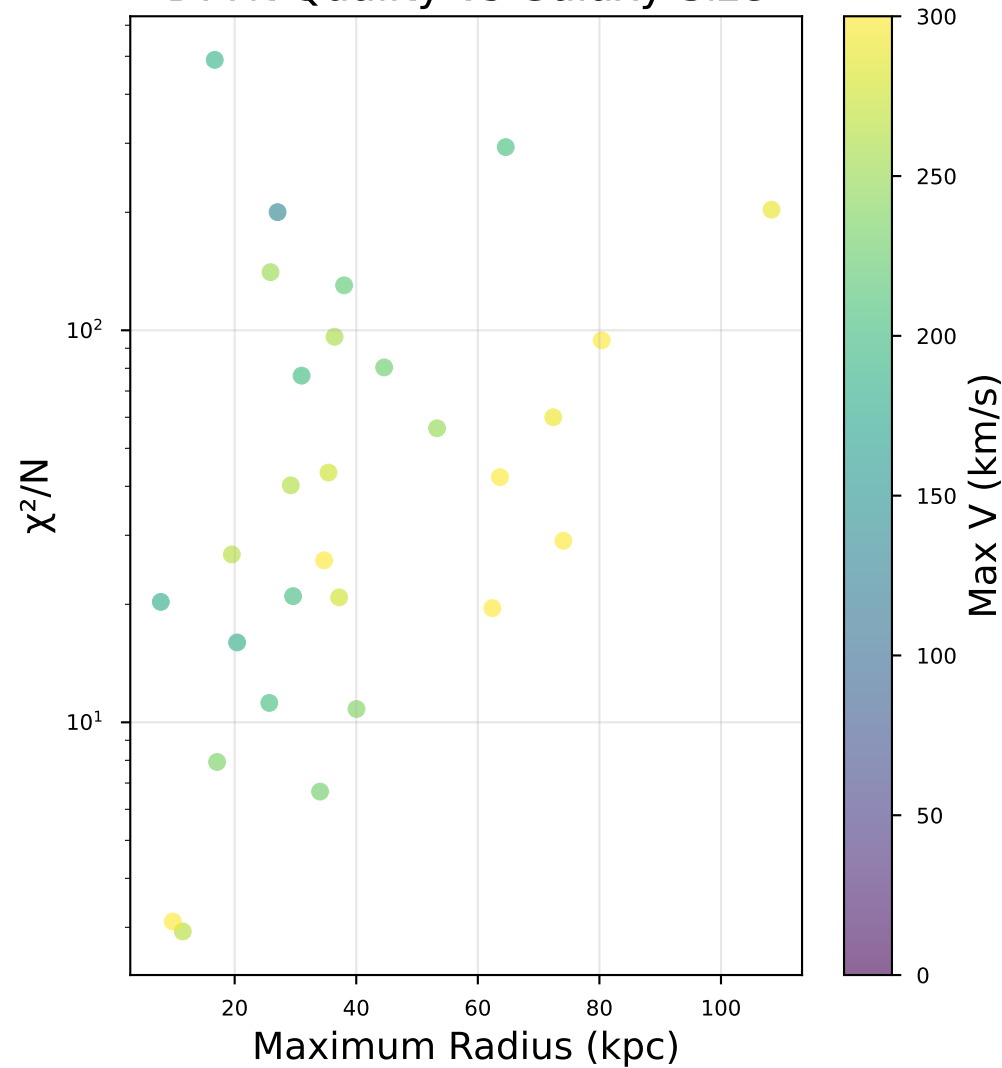
B. Cumulative Distribution



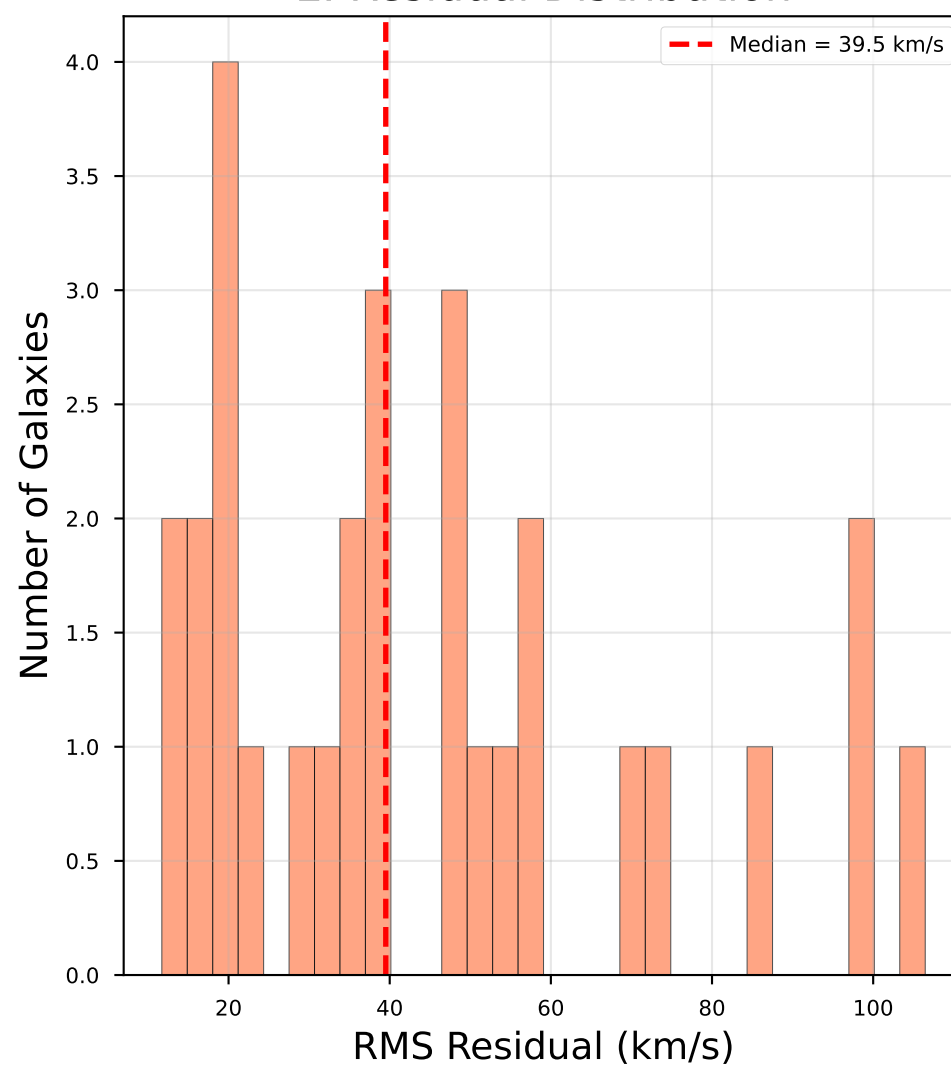
C. Optimized Parameters



D. Fit Quality vs Galaxy Size



E. Residual Distribution



F. Recognition Science Framework

Zero Free Parameters:

$$\phi = 1.618034$$

$$\beta_0 = -(\phi - 1)/\phi^5 = -0.055728$$

Optimized Scales:

$$\lambda_{\text{eff}} = 50.8 \mu\text{m}$$

$$\beta = 1.492 \times \beta_0$$

$$\mu = 1.644 \times \mu_0$$

$$\lambda_c = 1.326 \times \lambda_{c0}$$

Statistics:

Galaxies: 29/171

Median χ^2/N : 40.23

$\chi^2/N < 2$: 0.0%

$\chi^2/N < 5$: 6.9%