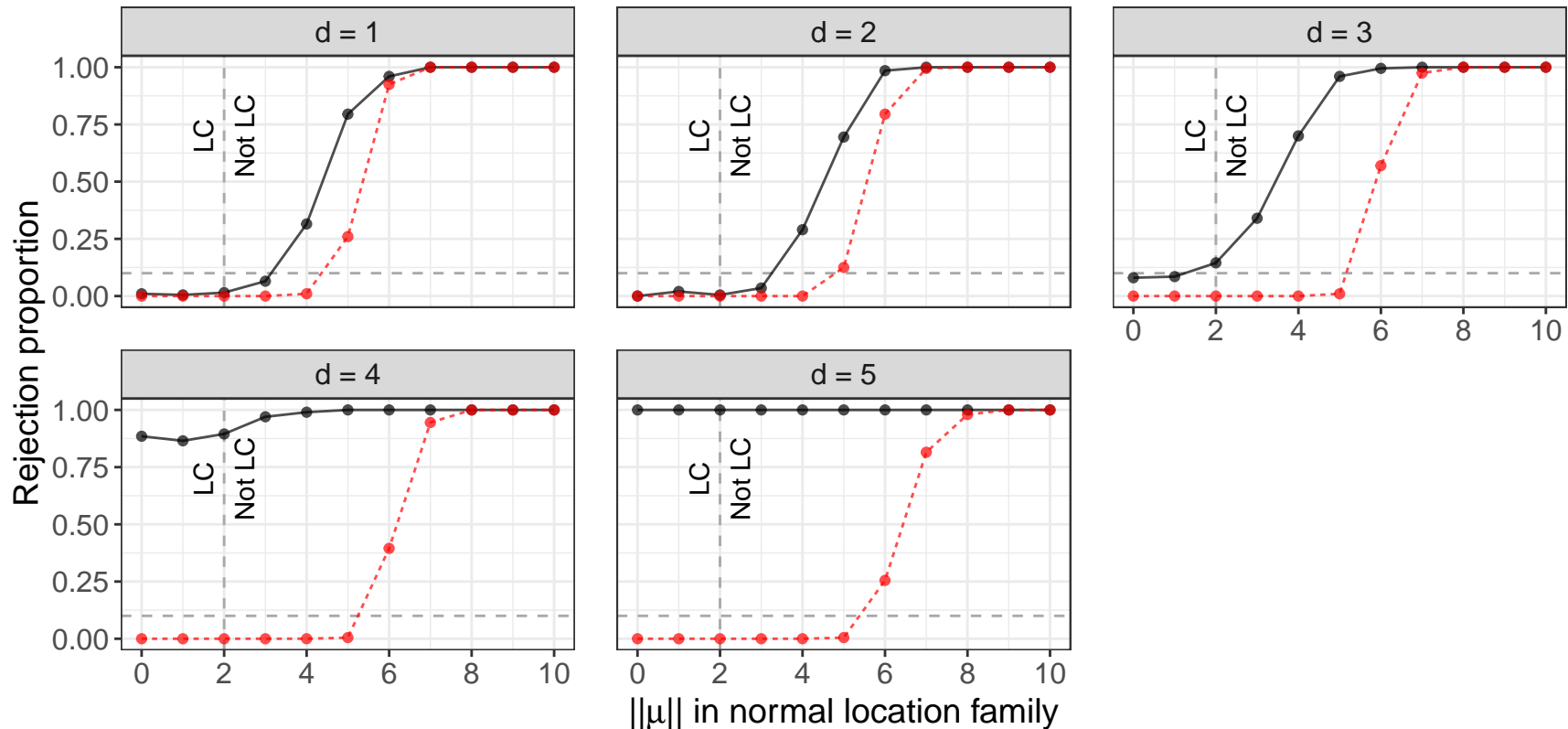Tests for $H_0$: Log−concave vs $H_1$: Not log−concave

Normal location family $f(x) = 0.5\phi_d(x) + 0.5\phi_d(x - \mu)$. $n = 100$.

Permutation test — — Universal test (fully nonparametric, random projections)