Grid Search for Maxmimum Likelihood Estimate of Pr and Ps Marginal Likelihood 10 5 0 -1.00 probability 0.75 0.002 Segregation Efficiency 0.001 0.50 0.000 0.25 0.00 0.25 0.50 0.75 1.00 5 10 15 20 0.00 Marginal Likelihood Replication Efficiency Error Bars show 95% CI for Pr and Ps