Diffuse priors for rate parameters, diffuse prior for sampling probability -1000 log-posterior -2000 -3000 -4000 -5000 9e-04 Β 6e-04 3e-04 0.6 -0.4 ┰ 0.2 Chain 1.00 • 0.75 0.50 ρ 0.25 0.00 -1.0 - $Pr(X_j(t_1) = S)$ 0.9 0.8 0.7 0.6 0.15 $Pr(X_j(t_1) = I)$ 0.10 0.05 0.00 0.4 $Pr\big(X_j\big(t_1\big) = R\big)$ 0.3 0.2 0.1 0.0 25000 50000 75000 100000 Iteration