Bayesian Bootstrap distribution of theta for network k=2 Edge (1,2) Edge (2,3) Edge (2,8) 30 -10.0 Frequency Frequency 7.5 -Frequency 20 -5.0 5.0 10 -2.5 2.5 -0.0 0.0 0.3 0.4 0.3 0.2 0.1 0.2 0.3 0.2 0.1 0.4 0.0 0.1 0.0 0.4 0.0 theta theta theta Edge (2,12) Edge (2,21) Edge (2,24) 10.0 -Frequency 7.5 -Frequency Frequency 5.0 2.5 -0.0 -0 -0.2 0.3 0.4 0.5 0.2 0.2 0.3 0.3 0.4 0.1 0.4 0.1 0.1 0.0 0.0 theta theta theta Edge (2,36) 10.0 -7.5 -Frequency 5.0 0 and 95% empirical percentiles jointGHS estimate 2.5 -0.0 -

0.4

0.2 0.3

theta

0.0 0.1