Sample statistics edges\_layer.1 edges\_layer.1 -30 -100 1020 0.00 0.02 0.04 -20 edges\_layer.2 edges\_layer.2 0.02 0.00 -40 mutual.same.layer.mem.1 mutual.same.layer.mem.1 0.20 0.10 0.00 -5 mutual.same.layer.mem.2 mutual.same.layer.mem.2 0.08 0.04 -20 - 100.00 -20 gwideg0.69.layer.mem1 gwideg0.69.layer.mem1 0.00 0.10 0.20 -5 gwideg0.69.layer.mem2 gwideg0.69.layer.mem2 -0.03 - 0.010.01-0.03-0.02-0.01 0.00 0.01 0.02 gwodeg0.69.layer.mem1 gwodeg0.69.layer.mem1 0.00 0.10 0.20 0.30 -4 gwodeg0.69.layer.mem2 gwodeg0.69.layer.mem2 0.0 0.1 0.2 0.3  $\alpha$ 

-2

Sample statistics gwesp.layer.1.fixed.0.69 gwesp.layer.1.fixed.0.69 0.000 0.015 0.030 -49 -40 -20 gwesp.layer.2.fixed.0.69 gwesp.layer.2.fixed.0.69 0.010 0.000 -100 -50 edgecov.layer.1.log\_cdist edgecov.layer.1.log\_cdist 0.000 0.015 0.030 -20 -40edgecov.layer.2.log\_cdist edgecov.layer.2.log\_cdist 0.000 0.010 0.020 -50 edgecov.layer.1.log\_gdp\_out edgecov.layer.1.log\_gdp\_out 0.0000 0.0010 -500 -500 edgecov.layer.2.log\_gdp\_out edgecov.layer.2.log\_gdp\_out 0.0010 -10000.000.0 -500 -1000 0.00000.00100.0020 edgecov.layer.1.log\_gdp\_in edgecov.layer.1.log\_gdp\_in -500 -500 edgecov.layer.2.log\_gdp\_in edgecov.layer.2.log\_gdp\_in 0.0010 0.0000 -1000

-1000

-500

Sample statistics edgecov.layer.1.alliance edgecov.layer.1.alliance 0.08 5 10 0.04 -50 0.00 -15 0 500000 1000000 1500000 2000000 2500000 -10 10 edgecov.layer.2.alliance edgecov.layer.2.alliance 0.00 0.02 0.04 0.06 10 20 0 -20 0 500000 1000000 1500000 2000000 2500000 -30 20 -20 edgecov.layer.1.polity\_diff edgecov.layer.1.polity\_diff 0.003 0.006 0 100 0.000 -200 500000 1000000 2000000 2500000 -200 -1000 100 200 1500000 edgecov.layer.2.polity\_diff edgecov.layer.2.polity 0.004 200 0.002 -200 0 ; 0.000 500000 1000000 0 1500000 2000000 2500000 -400 -200 200 400 edgecov.layer.1.log\_milit\_exp\_out edgecov.layer.1.log\_milit\_exp\_out 500 0.0015 -200 0.0000 500000 2500000 -500 0 1000000 1500000 2000000 500 edgecov.layer.2.log\_milit\_exp\_out edgecov.layer.2.log\_milit\_exp\_out 500 0.0000 0.0010 -500 0 500000 1000000 -1000 0 1500000 2000000 2500000 -500 500 1000 edgecov.layer.1.log\_milit\_exp\_in edgecov.layer.1.log\_milit\_exp\_in 400 0.0015 0 0.000.0 0 500000 2500000 -500 1000000 1500000 2000000 500 edgecov.layer.2.log\_milit\_exp\_in edgecov.layer.2.log\_milit\_exp\_in 500 0.0000 0.0010 0

-500

0

500000

1000000

1500000

2000000

2500000

-1000

-500

0

500

1000

## Sample statistics

