Phase I Compute k-means cluster all Fit SBM to each $oldsymbol{ heta}(\hat{\mathbf{z}},\hat{oldsymbol{\pi}})$ network layer individually for each layer into S strata Phase II Compute Compute $oldsymbol{ heta}_{(1)}(\hat{oldsymbol{ au}}^s,\hat{oldsymbol{\pi}}^l)$ $oldsymbol{ heta}_{(2)}(\hat{oldsymbol{ au}}^s,\hat{oldsymbol{\pi}}^l)$ Cluster layers into strata under Iterate until $oldsymbol{ heta}_{(1)}$ and $oldsymbol{ heta}_{(2)}$ convergence Update strata for unique combinations of $\boldsymbol{\theta}_{(1)}$ and $\boldsymbol{\theta}_{(2)}$