Panel L-2: Phase-Lock Network Densification and Residual Correlations
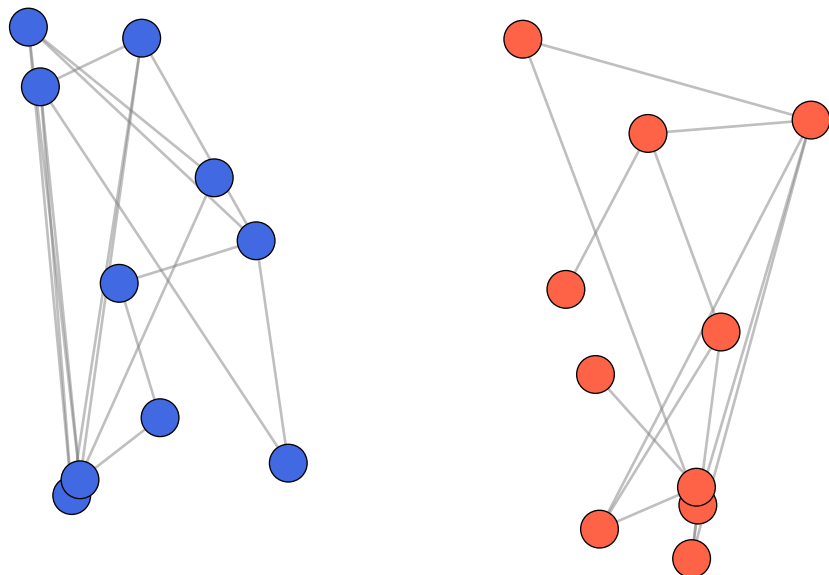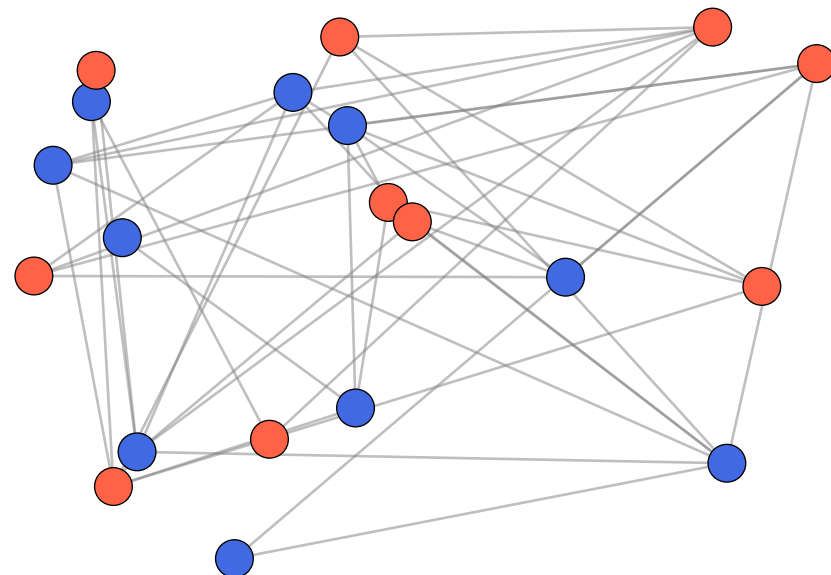
(A) Initial: Separated Networks
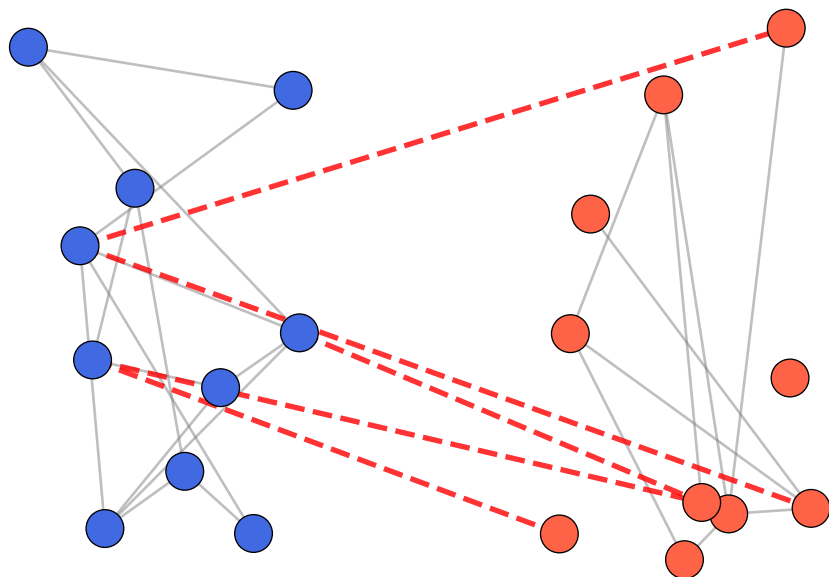

|E| = 30 edges
Two disconnected components

(B) Mixed: Connected Network

|E| = 44 edges
Single connected component

(C) Re-separated: Residual Edges Persist

|E| = 30 edges
5 residual cross-edges (red dashed)

(D) Edge Count Evolution

$|E_{final}| > |E_{initial}|$

30

44

30

Number of Edges |E|

Initial

Mixed

Re-separated

More edges → more constraints → higher entropy
Residual edges = categorical memory of mixing