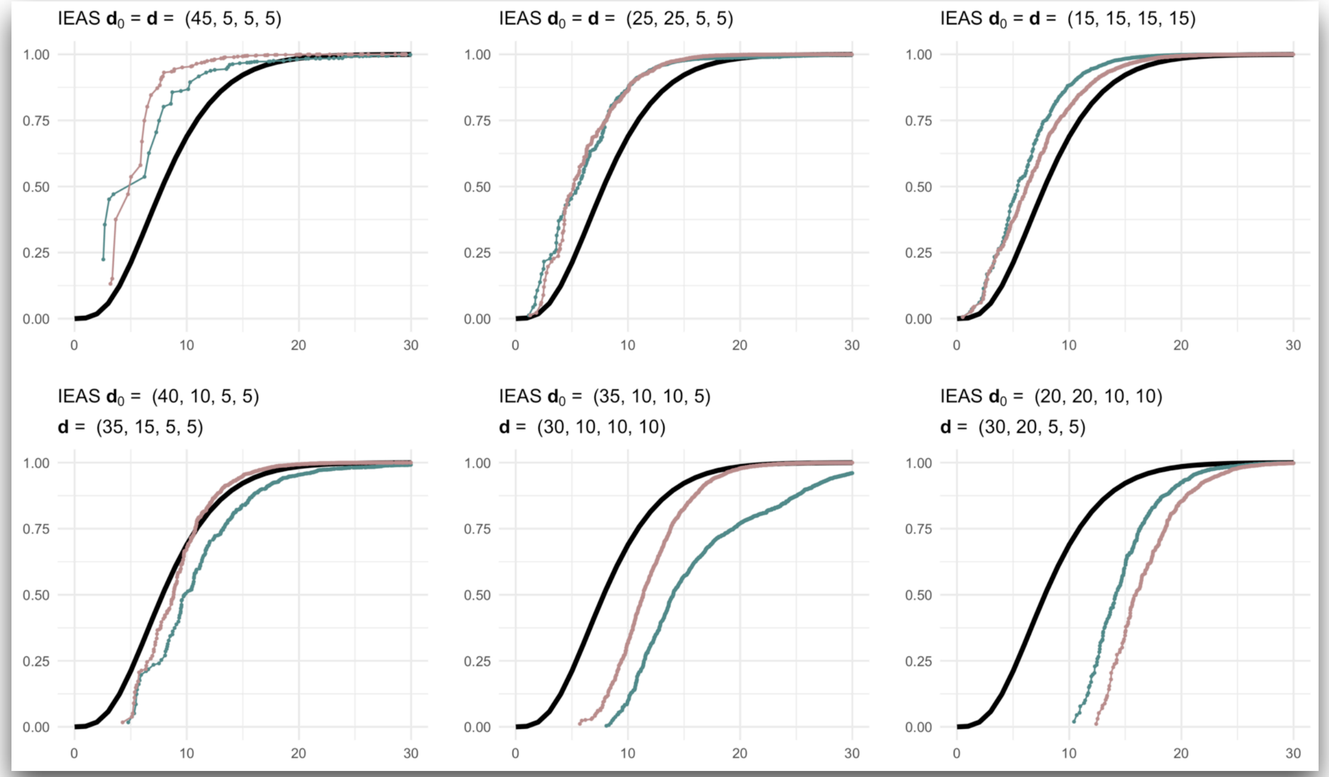
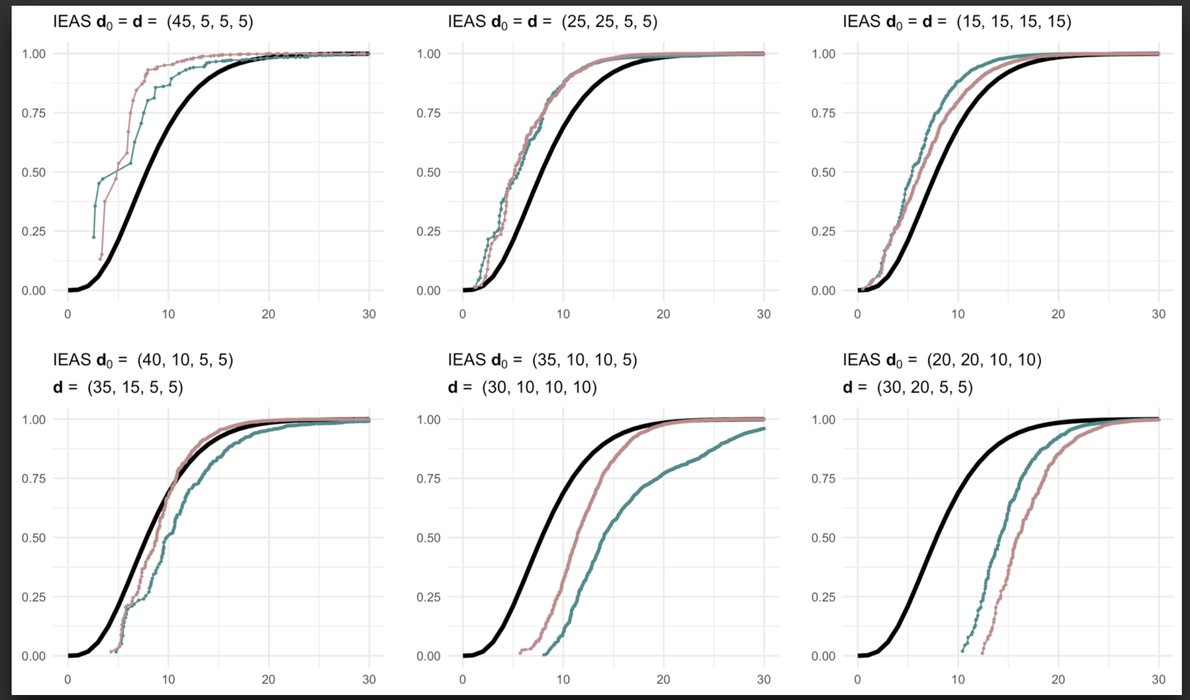

IEAS $\mathbf{d}_0$ = $\mathbf{d}$ = (45, 5, 5, 5)
IEAS $\mathbf{d}_0$ = $\mathbf{d}$ = (25, 25, 5, 5)
IEAS $\mathbf{d}_0$ = $\mathbf{d}$ = (15, 15, 15, 15)
IEAS $\mathbf{d}_0$ = (40, 10, 5, 5)
$\mathbf{d}$ = (35, 15, 5, 5)
IEAS $\mathbf{d}_0$ = (35, 10, 10, 5)
$\mathbf{d}$ = (30, 10, 10, 10)
IEAS $\mathbf{d}_0$ = (20, 20, 10, 10)
$\mathbf{d}$ = (30, 20, 5, 5)
1.00
0.75
0.50
0.25
0.00
0
10
20
30

- formal goodness of fit tests

multigraph representation of network data

- probability models
- statistics to analyze structural features under these models
- closed expressions for moments of many such statistics
- formal goodness of fit tests
    - test statistics S of Pearson and A of information divergence type
    - exact distributions of the test statistics are numerically investigated



even for small number of edges,
the null distributions of both statistics are well approximated by their asymptotic χ^2-distribution