random multigraph models: goodness of fit

gof measures between observed and expected edge multiplicity sequence under simple or composite hypothesis

test statistics:

- S of Pearson type
- A of information divergence type

significance level $\alpha = 0.05$

summary:

- If the convergence of the cdf's of test statistics are rapid and depend on parameters in models
- \square approximations can be obtained using adjustments of χ^2 -distributions yielding better power
- influence of RSM on both test statistics is substantial for small m: a shift of their distributions towards smaller values compared to what holds true for null distributions under IEA

example: number of loops

