

q: degree distribution with 1 edge less per node

Assortativity coefficient

$$r = \sum_{k_1, k_2} k_1 \cdot k_2 \frac{P(k_1, k_2) - q(k_1)q(k_2)}{\sigma_q^2}$$

Large: if $k_1 \approx k_2$
Small: if $k_1 \gg k_2$

positive: if $P(k_1, k_2)$ large
↳ range 0 ... almost N
of $P(k, k)$

$r > 0 \Leftrightarrow$ nodes with similar degree connect \rightarrow positive terms
Large

$r < 0 \Leftrightarrow$ " " (large deg. difference connect \rightarrow negative terms
Large