Degree distributions in preferential attachment models using Stein's method Dr. Nathan Ross (Universität Melbourne)

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Linear preferential attachment is a popular family of random network models. We study the degree of a fixed or randomly chosen vertex in such models. In particular we identify the distributional limits of these degree statistics as the number of nodes in the network becomes large. The main tool used to show these results is Stein's method combined with identifying the limits as fixed points of distributional transformations.