Nicole Eikmeier* (eikmeier@grinnell.edu). Higher-order Preferential Attachment Models.

Preferential attachment models are a common class of graph models which have been used to explain why power-law distributions appear in the degree sequences of real network data. Among other properties of real-world networks, they commonly have non-trivial clustering coefficients due to an abundance of triangles as well as power-laws in the eigenvalue spectra. In this talk we present a Higher-Order Generalized Preferential Attachment Model that, by construction, has

nontrivial clustering. In this model we allow for the addition of an arbitrary number of edges, producing more complex