

Meeting: 1005, Newark, Delaware, SS 16A, Special Session on Probabilistic Paradigms in Combinatorics

1005-05-69 **Joel H. Spencer*** (spencer@cims.nyu.edu), 251 Mercer St, New York, NY 10012. *Counting Connected Graphs with Erdos Magic.*

Let $C(k, l)$ denote the number of connected labelled graphs with k vertices and $k - 1 + l$ edges. We give the asymptotics of $C(k, l)$ when $k, l \rightarrow \infty$ by analyzing breadth first search on the random graph $G(k, p)$ for an appropriate p . (Received January 27, 2005)