1127-05-337 Hao Huang* (hao.huang@emory.edu), Atlanta, GA 30322, and Noga Alon and Tom Bohman. Biclique partition number of random graphs.

The biclique partition number bp(G) is the minimum number of complete bipartite graphs needed to partition the edges of a graph G. It is not hard to see that $bp(G) \leq n - \alpha(G)$, where $\alpha(G)$ is the independence number. Erdős conjectured that for the random graph G = G(n, 0.5), $bp(G) = n - \alpha(G)$ with high probability. In this talk I will discuss some recent progress and and remaining challenges in this area, and show that actually there exists an absolute constant c > 0 such that for G = G(n, 0.5), $bp(G) \leq n - (1 + c)\alpha(G)$ with high probability. This is joint work with Noga Alon and Tom Bohman. (Received February 06, 2017)