1138-05-352Patrick Bennett*, 1903 Western Michigan Avenue, Kalamazoo, MI 49008, and Deepak Bal.
The bipartite $K_{2,2}$ -free process and bipartite Ramsey numbers.

The smallest n such that every red-blue edge-coloring of $K_{n,n}$ contains a blue $K_{2,2}$ or a red $K_{t,t}$ is known as the two color bipartite Ramsey number, br(2,t). In the bipartite $K_{2,2}$ -free process, beginning with an empty graph on vertex set $A \cup B$ where |A| = |B| = n, random edges from A to B are sequentially added under the restriction that no $K_{2,2}$ is formed. We use the technique of dynamic concentration to analyze this process and show how the resulting graph improves the previously best known lower bound by Caro and Rousseau on br(2,t) for large t. This is joint work with Deepak Bal. (Received February 13, 2018)