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*Recent progress on bipartite Turán numbers*

For a family  $\mathcal{F}$  of graphs, the Turán number  $ex(n, \mathcal{F})$  is the maximum number of edges in an  $n$ -vertex graph that has no graph in  $\mathcal{F}$  as a subgraph. Determining  $ex(n, \mathcal{F})$  when  $\mathcal{F}$  contains a bipartite graph is a notoriously difficult problem. We discuss recent progress on several conjectures of Erdős and Simonovits from 1982 about bipartite Turán numbers. (Partly joint with Peter Keevash and Benny Sudakov.)