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Boris Bukh* (bbukh@math.cmu.edu), Department of Mathematical Sciences, Carnegie Mellon University, Pittsburgh, PA 15213. *Algebraic constructions of Turán graphs.*

Pick a bipartite graph H . What is the graph with the largest number of edges and no copy of H ? Evidence hints at an algebraic answer to this question. In this talk, I will present the available evidence, and explain the current obstacles. (Received August 26, 2015)