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Jonathan Cutler* (cutlerjo@mail.montclair.edu), Montclair State University, Department of Mathematical Sciences, Montclair, NJ 07030, and **A. J. Radcliffe**. *Extremal problems for homomorphisms*.

There is a close connection between graph homomorphisms and a variety of natural graph theoretic notions: independent sets, colorings, etc. In this talk, we will discuss the extremal problem for homomorphisms from graphs of a fixed size and order to a fully-looped path of length two. In the complement, this corresponds to maximizing the number of complete bipartite subgraphs of a graph. (Received March 28, 2010)