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Jonathan Cutler and **Andrew J Radcliffe*** (aradcliffe1@math.unl.edu), Department of Mathematics, University of Nebraska-Lincoln, Lincoln, NE 68588. *Extremal Problems for counting homomorphisms.*

There is a close connection between graph homomorphisms and a variety of natural graph theoretic notions: independent sets, colorings, etc. There has been some progress recently concerning extremal problems for counting graph homomorphisms. We will discuss some of this work, including the interesting behavior of a specific extremal problem. (Received August 06, 2007)