Meeting: 1003, Atlanta, Georgia, SS 20A, AMS Special Session on Commutative Algebra, I

1003-13-1332 Kia Dalili* (dalili@math.rutgers.edu), 326 Wayne St, Highland Park, NJ 08904. The HomAB Problem.

The HomAB problem is the problem of bounding the number of generators of the module Hom(A,B) in terms of the numerical invariants of the modules A and B. We prove special cases and collect evidence for the conjecture that the number of generators of Hom(A,B) is bounded by a polynomial in hdeg(A) and hdeg(B). (Received October 05, 2004)