962-13-255 Carolyn A Yackel\* (cyackel@indiana.edu), Rawles Hall, Department of Mathematics, Bloomington, IN 47405-5701. Koszul Homology and Frobenius Powers of Quotient Ideals. Preliminary report.

Given a finitely generated module, M, over a Noetherian ring, R, and a fixed sequence of elements of R,  $\underline{x} = x_1, \ldots, x_n$ , let  $I = (f_1, \ldots, f_k)$  be an ideal such that  $H_i(\underline{x}; M/I)$  has finite length. We discuss the relationship between this length and the length of  $H_i(\underline{x}; M/I_N)$ , where  $I_N = (f_1^N, \ldots, f_k^N)$  is a generalized Frobenius power of I. (Received September 04, 2000)