Neil J. Calkin and Shannon R. Lockard\* (renees@clemson.edu), 143-1 Copperfield Dr., Central, SC 29630. Dependence Among Random Binary Vectors. Preliminary report.

Randomly select a sequence of independent vectors  $\underline{v}_1, \underline{v}_2, \dots, \underline{v}_l$  in  $\mathbb{F}_2^k$  such that the components of each vector  $\underline{v}$  are independent and  $Pr(\underline{v}[j] = 1) = \alpha_j$ . We discuss upper and lower bounds for l which ensure that with high probability the vectors are linearly dependent. (Received September 26, 2006)