1067-90-2142   **Sarah A King*** (`saking@ncsu.edu`). *Sparsity Optimization with Applications in Bioscience.* Preliminary report.

There is increasing interest in applying sparsity optimization to bioscience applications. Use of this approach for data compression or parameter estimation eliminates the need for system reductions. We will develop a general formulation for sparsity optimization and then apply our formulation and numerical algorithms to bionetworks. (Received September 22, 2010)