1035-Z1-58   **Susan Kim*** (`jmswitkes@csupomona.edu`), 710 N. College Ave., Claremont, CA 91711. *On the Distribution of the Number of Simplex Iterations to Optimality.*

In this talk, we present a simulation exploring the distribution of the number of simplex iterations required to obtain the optimal solution of a randomly-generated linear programming problem of a given size and type. We use a Chi-square goodness-of-fit test to show that the distribution appears to be well-fit by a gamma distribution. (Received June 29, 2007)