

Michigan Math Club

Thursday at 4pm in the Nesbitt Room

Free Pizza and Pop



Group Testing

Anna Gilbert

Abstract for 28 January 2016

In the 1940's, several economists in the Public Health Service devised pooling designs for testing soldiers drafted to serve in the military for syphilis. These designs (and the more general problem of testing large populations of items) became known as combinatorial group testing. I'll describe some modern applications in genetics and illustrate several designs which come from error correcting codes.

