1052-20-186 **Kevin Wortman*** (wortman@math.utah.edu). Reducing Dehn functions of arithmetic groups to the Dehn functions of parabolic groups.

Young proved that SL(n,Z) has a quartic Dehn function if n>4.

I'll discuss a method for reducing the question of whether certain arithmetic groups have a polynomial Dehn function to a seemingly simpler question of whether certain loops in parabolic subgroups can be filled with polynomial disks in the ambient arithmetic group. The method applies to groups G(Z) where G is a simple Q-group of Q-rank at least 3 with Q-root system of type A_n , C_n , or D_n . (Received August 27, 2009)