

1023-20-1530 **Noel Brady*** (nbrady@math.ou.edu), Department of Mathematics, University of Oklahoma,
Norman, OK 73019, and **Max Forester**. *High dimensional isoperimetric functions of groups.*

I will discuss recent progress on the problem of determining the coarse structure of the k -dimensional isoperimetric spectrum, for $k > 1$. This spectrum is the set of exponents " s " for which the function x^s is the k -dimensional Dehn function of a group. Such functions describe the optimal k -dimensional isoperimetric inequality that holds in any model for the group. This is joint work with Max Forester. (Received September 26, 2006)