RICHARD GAELAN HANLON, Memorial University of Newfoundland

A Subgroup Theorem for Homological Dehn Functions

Let G be a group and let H be a subgroup of G. If G admits a finite $(n+1)$-dimensional $K(G,1)$ and H is of type F_{n+1} then $FV_H^{n+1} \preceq FV_G^{n+1}$ where FV_H^{n+1} and FV_G^{n+1} are the n-dimensional homological Dehn functions for G and H. We give basic definitions, discuss our result and state some consequences. If time permits we will discuss an extension to groups with torsion. This is joint work with Eduardo Martinez-Pedroza.