



# MANHATTAN ALGEBRA DAY

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*Stallings sections and virtually free groups*

Friday, December 7, 2012

CUNY Graduate Center, Room C204

2:30 pm

*Abstract:*

The Stallings construction for f.g. subgroups of free groups is generalized by introducing the concept of Stallings section, which allows an efficient computation of the core of a Schreier graph based on edge folding. It is proved that those groups admitting Stallings sections are precisely f.g. virtually free groups, through a constructive approach based on Bass-Serre theory and Muller-Schupp theorem.