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**Mladen Bestvina** and **Mark Feighn\*** ([feighn@andromeda.rutgers.edu](mailto:feighn@andromeda.rutgers.edu)). *Invariance properties of definable sets and Razborov's example*. Preliminary report.

We explore invariance properties of definable subsets of a free group (in the sense of first order theory). As an application, inspired by an example of Razborov we show that there are two-quantifier sets not in the Boolean algebra generated by one-quantifier sets. (Received August 09, 2005)