

# “Magnus Group Theory Seminar Online”

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*“Definable subsets in a free group”*

**Friday, Nov 11, 4:00pm (EDT)**

## **Abstract:**

We give a description of definable subsets in a free non-abelian group  $F$  that follows from our work on the Tarski problems. As a corollary we show that proper non-abelian subgroups of  $F$  are not definable (Malcev's problem) and prove Bestvina and Feighn's result that definable subsets in a free group are either negligible or co-negligible. This is joint work with A. Myasnikov.