1040-20-65 **Alexei Krasilnikov*** (alexei@mat.unb.br), Department of Mathematics, University of Brasilia, Brasilia, DF 70910-900, Brazil. *A non-finitely based variety of groups which is finitely based as a torsion free variety.*

A torsion free variety of groups is a variety generated by torsion free groups (of course, such a variety contains also groups which are not torsion free). Kovács noticed that possibly some torsion free variety may be definable by a finite number of identities (as a torsion free variety) without having any finite basis in the usual sense. However, no example of a torsion free variety with this property was known. The aim of the present talk is to give such an example. (Received January 22, 2008)