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**Larsen E Louder\***, Department of Mathematics, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48103. *Krull dimension for limit groups.*

There is one-to-one correspondence between limit groups and irreducible varieties defined over the free group, objects which are fundamental in the study of the first order theory of free groups. I will discuss their finite Krull dimension, with an emphasis on iteratively adjoining roots to limit groups and finitely generated freely decomposable groups without 2-torsion, via uniform finiteness of Haken hierarchies of limit groups in terms of their ranks. (Received February 02, 2009)