

1085-16-244

Lars Winther Christensen* (lars.w.christensen@ttu.edu) and **Henrik Holm**. *Limits of finite free complexes*. Preliminary report.

In the category of R -modules, every homomorphism from a finitely presented module to a flat module factors through a finitely generated free module, and that property characterized flat modules; this was proved independently by Govorov and Lazard in the 1960s. I will discuss a similar result about complexes of modules and in the process identify which complexes qualify as finitely presented objects in the category of complexes. (Received September 10, 2012)