planetmath.org

Math for the people, by the people.

flat resolution

Canonical name	FlatResolution
Date of creation	2013-03-22 12:09:53
Last modified on	2013-03-22 12:09:53
Owner	antizeus (11)
Last modified by	antizeus (11)
Numerical id	6
Author	antizeus (11)
Entry type	Definition
Classification	msc 16E05

Let M be a module. A *flat resolution* of M is an exact sequence of the form
$$\cdots \to F_n \to F_{n-1} \to \cdots \to F_1 \to F_0 \to M \to 0$$
where each F_n is a flat module.