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free resolution

Canonical name FreeResolution

Date of creation 2013-03-22 12:09:48 Last modified on 2013-03-22 12:09:48

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Numerical id 6

Author antizeus (11) Entry type Definition Classification msc 16E05 Let M be a module. A $free\ resolution$ 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 free module.