



Math for the people, by the people.

projective resolution

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Let M be a module. A *projective resolution* of M is an exact sequence of the form

$$\cdots \rightarrow P_n \rightarrow P_{n-1} \rightarrow \cdots \rightarrow P_1 \rightarrow P_0 \rightarrow M \rightarrow 0$$

where each P_n is a projective module.