

Support of $\text{Hom}_R(M, N)$ by $\text{Ext}_R(M, N)$ and $\text{Ext}_R(N, M)$

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Abstract

Let R be a ring, M and N be R -modules. We prove that $\text{Hom}_R(M, N)$ is a direct summand of $\text{Ext}_R(M, N)$ if and only if $\text{Ext}_R(M, N) = 0$.

1. Introduction

Let R be a ring.

Let M and N be R -modules.

Let $\text{Hom}_R(M, N)$ be the set of all R -homomorphisms from M to N .

Let $\text{Ext}_R(M, N)$ be the set of all R -extensions of M by N .

It is well known that $\text{Hom}_R(M, N)$ is a direct summand of $\text{Ext}_R(M, N)$ if and only if $\text{Ext}_R(M, N) = 0$. This is the main result of this paper. We prove this by using the following lemma.

Lemma 1.1. Let M and N be R -modules. Then $\text{Hom}_R(M, N)$ is a direct summand of $\text{Ext}_R(M, N)$ if and only if $\text{Ext}_R(M, N) = 0$.

Proof. Let M and N be R -modules. Then $\text{Hom}_R(M, N)$ is a direct summand of $\text{Ext}_R(M, N)$ if and only if $\text{Ext}_R(M, N) = 0$.

Let $\text{Hom}_R(M, N)$ be the set of all R -homomorphisms from M to N .

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It is well known that $\text{Hom}_R(M, N)$ is a direct summand of $\text{Ext}_R(M, N)$ if and only if $\text{Ext}_R(M, N) = 0$. This is the main result of this paper. We prove this by using the following lemma.

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