

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

Homomorphisms

August 1981

1. Introduction

Let R be a ring, M and N be R -modules. We consider the following problem:

2. Problem

Let

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$N = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

$$M = \begin{pmatrix} R & R \\ 0 & R \end{pmatrix}$$

Then $\text{Hom}_R(M, N)$ is isomorphic to the direct sum of two copies of R . We also have $\text{Ext}_R(M, N) = 0$ and $\text{Tor}_R(M, N) = 0$. Therefore, $\text{Hom}_R(M, N)$ is not isomorphic to $\text{Ext}_R(M, N) \oplus \text{Tor}_R(M, N)$.

Now, let R be a ring, M and N be R -modules. We consider the following problem:

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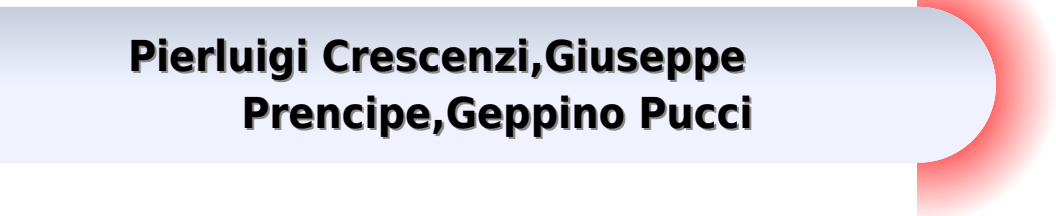
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Then $\text{Hom}_R(M, N)$ is isomorphic to the direct sum of two copies of R . We also have $\text{Ext}_R(M, N) = 0$ and $\text{Tor}_R(M, N) = 0$. Therefore, $\text{Hom}_R(M, N)$ is not isomorphic to $\text{Ext}_R(M, N) \oplus \text{Tor}_R(M, N)$.

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**Pierluigi Crescenzi, Giuseppe
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