

## 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 want to show that  $\text{Ext}_R(M, N)$  is isomorphic to  $R$ .

Let  $\phi: M \rightarrow N$  be a homomorphism. Then  $\phi$  is determined by its values on the generators of  $M$ .

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

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

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

We want to show that  $\text{Ext}_R(M, N)$  is isomorphic to  $R$ . We will use the following lemma:

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**Kalyanmoy Deb, Riccardo  
Poli, Wolfgang Banzhaf, Hans-Georg  
Beyer, Edmund Burke, Paul  
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*Genetic and Evolutionary Computation — GECCO 2004* Kalyanmoy Deb, Riccardo Poli, Wolfgang Banzhaf, Hans-Georg Beyer, Edmund Burke, Paul Darwen, Dipankar Dasgupta, Dario Floreano, James A. Foster, Mark Harman, Owen Holland, Pier Luca Lanzi, Lee Spector, Andrea Tettamanzi, Dirk Thierens, Andy Tyrrell, 2004-06-01 The two volume set LNCS 3102 3103 constitutes the refereed proceedings of the Genetic and Evolutionary Computation Conference GECCO 2004 held in Seattle WA USA in June 2004 The 230 revised full papers and 104 poster papers presented were carefully reviewed and selected from 460 submissions The papers are organized in topical sections on artificial life adaptive behavior agents and ant colony optimization artificial immune systems biological applications coevolution evolutionary robotics evolution strategies and evolutionary programming evolvable hardware genetic algorithms genetic programming learning classifier systems real world applications and search based software engineering *Applied Mechanics Reviews*, 1998 *Mathematical Reviews*, 1999 **Science Citation Index**, 1994 Vols for 1964 have guides and journal lists **Solutions Manual to Computer Algorithms** Baase, 1989-01-01

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