

# GAP 4 Package RingsForHomalg

**RingsForHomalg — An Abstract Package for Homological Algebra**

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# Chapter 1

## Introduction

### 1.1 Philosophy

This package is about how to implement rings for the GAP package homalg. To be written further.

### 1.2 Overview over this manual

Chapter 2 describes the installation of this package. *More text on other chapters to be written.*

Finally, Chapter 3 shows instructive examples for the usage of this package. The main reference for the Maple implementation is [BR].

## Chapter 2

# Installation of the RingsForHomalg-Package

To install this package just extract the package's archive file to the GAP `pkg` directory.

By default the RingsForHomalg package is not automatically loaded by GAP when it is installed. You must load the package with `LoadPackage("RingsForHomalg")`; before its functions become available.

Please, send us an e-mail if you have any questions, remarks, suggestions, etc. concerning this package. Also, I would like to hear about applications of this package.

Mohamed Barakat and Simon Görtzen

## Chapter 3

### Examples

Here comes text.

# References

- [BR] Mohamed Barakat and Daniel Robertz. `homalg` – A meta-package for homological algebra. accepted for publication in Journal of Algebra and its Applications. ([arXiv:math.AC/0701146](#) and [http://wwwb.math.rwth-aachen.de/homalg](#)). <sup>4</sup>

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