## **GAP 4 Package HomalgRings**

### HomalgRings — 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 HomalgRings-Package**

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

By default the HomalgRings package is not automatically loaded by GAP when it is installed. You must load the package with LoadPackage ("HomalgRings"); 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). 4

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