GAP 4 Package Gauss

Gauss — Extended Gauss Functionality for GAP

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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 Gauss-Package

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

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

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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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