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The **Quat** package is a Maple-Software package for calculations with Quaternions. It was developed as a test environment for scientific and research purposes at the Bauhaus-University Weimar. Hence the package doesn't enforce the claim to cover the whole scope of hypercomplex computation. It is rather a software tool to support and simplify the work with Quaternions and their applications.

The **Quat** package supports elements from quaternionic linear algebra as well as functions and operators as they are described in the book. A large section inside the **Quat** package is dealing with polynomial calculations and their applications. Therefore the package bundles an internal polynomial database, which can be used interactively during the Maple session.

The **Quat** package includes next to several Maple functions a fully integrated Maple help system, which is automatically available after the package installation.

## System requirements

To use the **Quat** package an installed Maple-Software system under a Windows or Linux operating system is required.

The package source code is written in Maple 9. Read the install instructions carefully in case that you possess another version.

## Feedback

Any comments and hints for further desired functionality of the package are welcome and should be sent to the authors under

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