GAP Package CKForms

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The CKForms package is used for finding standard compact Clifford-Klein forms of a non-compact homogeneous space where is a simple linear Lie group and is a non-compact reductive Lie subgroup of .

The current version of this package is [version 2.0.2](https://github.com/pjastr/CKForms/releases/tag/v2.0.2), released on 2021-08-25. For more information, please refer to the package [manual](manual.html). There is also a [README](readme.html) file.

## Dependencies

This package requires GAP version >=4.10.

The following other GAP packages are needed:

* sla >=1.5.3
* CoReLG >=1.54

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## Abstract

In this package we develop algorithms generating triples of lie algebras ( and are subalgebras of ) such that the corresponding triples of Lie groups fulfill some necessary conditions required for triples inducing standard compact Clifford-Klein forms. The program is used for searching for standard compact Cliiford-Klein forms.

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## Feedback

For bug reports, feature requests and suggestions, please use the [issue](https://github.com/pjastr/CKForms/issues) tracker.