

## CoCoALib - Feature #900

### New function: MinPoly of RingElem in quotient ring

27 Jun 2016 09:05 - Anna Maria Bigatti

|  |                    |                        |                    |
|--|--------------------|------------------------|--------------------|
| <b>Status:</b>   | Closed             | <b>Start date:</b>     | 27 Jun 2016        |
| <b>Priority:</b>   | Normal             | <b>Due date:</b>       |                    |
| <b>Assignee:</b>   | Anna Maria Bigatti | <b>% Done:</b>         | 100%               |
| <b>Category:</b>   | New Function       | <b>Estimated time:</b> | 1.50 hour          |
| <b>Target version:</b>   | CoCoALib-0.99600   | <b>Spent time:</b>     | 1.10 hour          |
| <b>Description</b><br>Convert code from CoCoA-5                                  |                    |                        |                    |
| <b>Related issues:</b>   |                    |                        |                    |
| Related to CoCoALib - Feature #901: New function: PrimaryDecomposition0 in Co... |                    | <b>Closed</b>          | <b>27 Jun 2016</b> |
| Related to CoCoALib - Design #849: Cleanup MinPoly code                          |                    | <b>In Progress</b>     | <b>22 Mar 2016</b> |
| Related to CoCoA-5 - Feature #1204: MinPoly for matrix: fix in cocoalib and e... |                    | <b>New</b>             | <b>31 Jul 2018</b> |

### History

#### #1 - 27 Jun 2016 09:06 - Anna Maria Bigatti

- Related to Feature #901: New function: PrimaryDecomposition0 in CoCoALib added

#### #2 - 27 Jun 2016 09:08 - Anna Maria Bigatti

- Description updated

From existing functions in CoCoA-5

#### #3 - 16 Sep 2016 16:16 - John Abbott

- Target version changed from CoCoALib-0.99550 spring 2017 to CoCoALib-0.99560

#### #4 - 28 Jun 2017 18:27 - John Abbott

Is this a duplicate issue? Progress is really 0%?

#### #5 - 29 Jun 2017 08:12 - Anna Maria Bigatti

- % Done changed from 0 to 10

- Estimated time set to 1.50 h

Is this a duplicate issue?

no.

This should be just a call to `MinPolyQuot(CanonicalRepr(f), DefiningIdeal(Pmodl))`.  
(with `Pmodl = RingOf(f)`)

I just wondered whether it's really useful....

**#6 - 06 Nov 2017 14:11 - John Abbott**

- Target version changed from CoCoALib-0.99560 to CoCoALib-0.99600

**#7 - 06 Nov 2017 14:12 - John Abbott**

- Related to Design #849: Cleanup MinPoly code added

**#8 - 31 Jul 2018 14:26 - Anna Maria Bigatti**

- Status changed from New to Feedback

- Assignee changed from Elisa Palezzato to Anna Maria Bigatti

- % Done changed from 10 to 90

**#9 - 31 Jul 2018 14:34 - Anna Maria Bigatti**

Works in cocoa5, but not ported in cocoa5 because of exported fn MinPoly defined in package **mat.cpkg5**.

**#10 - 31 Jul 2018 14:51 - Anna Maria Bigatti**

- Related to Feature #1204: MinPoly for matrix: fix in cocoa5 and export to cocoa5 added

**#11 - 03 Aug 2018 17:31 - John Abbott**

- Status changed from Feedback to Closed

- % Done changed from 90 to 100