

## CoCoALib - Bug #1380

### Make IsZeroDim more robust

27 Dec 2019 15:29 - John Abbott

|   |                  |                        |             |
|---|------------------|------------------------|-------------|
| <b>Status:</b>  | Closed           | <b>Start date:</b>     | 27 Dec 2019 |
| <b>Priority:</b>  | Normal           | <b>Due date:</b>       |             |
| <b>Assignee:</b>  | John Abbott      | <b>% Done:</b>         | 100%        |
| <b>Category:</b>  | Improving        | <b>Estimated time:</b> | 1.11 hour   |
| <b>Target version:</b>  | CoCoALib-0.99700 | <b>Spent time:</b>     | 1.15 hour   |
| <b>Description</b><br>Currently <b>IsZeroDim</b> and the impl via <b>lamZeroDim</b> require the original ideal to have a minimal GB.<br>However, some functions (e.g. GBasisByHomog) can produce an ideal whose GB is not minimal.<br><br>Change impl of lamZeroDim so that it works even if the GB already memorized is not minimal. |                  |                        |             |
| <b>Related issues:</b><br>Related to CoCoALib - Bug #1379: Fails to recognize zero-dim ideal <b>Closed</b> <b>27 Dec 2019</b>   |                  |                        |             |

#### History

##### #1 - 27 Dec 2019 15:29 - John Abbott

- Related to Bug #1379: Fails to recognize zero-dim ideal added

##### #2 - 27 Dec 2019 15:31 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 50

I have written a first impl; with this impl, the problem case in issue [#1379](#) works (well, it does not give NYI).

I'll discuss with Anna, whether my impl is reasonable.

Not yet checked in...

##### #3 - 28 Dec 2019 18:49 - John Abbott

- Assignee set to John Abbott

- % Done changed from 50 to 90

- Estimated time set to 1.11 h

I have made a new version of lamZeroDim which works with any GB -- no longer needs a minGB.

All tests pass. Checking in in a few mins.

##### #4 - 28 Dec 2019 18:50 - John Abbott

- Target version changed from CoCoALib-0.99800 to CoCoALib-0.99700

##### #5 - 28 Dec 2019 18:58 - John Abbott

- Status changed from In Progress to Feedback

##### #6 - 10 Jan 2020 12:29 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 90 to 100