

CoCoALib - Feature #1016

ReducedGBasis for RingWeyl (and other non-commutative rings)

02 Mar 2017 11:16 - John Abbott

Status:	Closed	Start date:	02 Mar 2017
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	Improving	Estimated time:	1.01 hour
Target version:	CoCoALib-0.99550 spring 2017	Spent time:	1.20 hour
Description			
Implement ReducedGBasis for RingWeyl and other potential future non-commutative rings.			
Related issues:			
Related to CoCoALib - Feature #961: New function: ReducedGBasis			Closed 03 Nov 2016

History

#1 - 29 Mar 2017 18:22 - Anna Maria Bigatti

- Related to Feature #961: New function: ReducedGBasis added

#2 - 27 Apr 2017 15:01 - Anna Maria Bigatti

- Description updated
- Status changed from New to Feedback
- Assignee set to Anna Maria Bigatti
- Target version changed from CoCoALib-1.0 to CoCoALib-0.99550 spring 2017
- % Done changed from 0 to 90
- Estimated time set to 1.01 h

I think this is done automatically.
I did not write an example, but I think the problem was about a bug in the interreduction, not just for non-commutative rings. (See <https://cocoa.dima.unige.it/redmine/issues/961#note-11>)

```
/**/ NewWeylAlgebra(QQ,"x,y");
RingWithID(5, "QQ[x,y,dx,dy]")
/**/ use It;
/**/ GBasis(ideal(x,dx));
[1]
```

#3 - 28 Apr 2017 16:05 - Anna Maria Bigatti

- Status changed from Feedback to Closed
- % Done changed from 90 to 100

Checked: interreduction does not depend on commutativity.
Cleaned up. Closing