

CoCoALib - Feature #598

Syzygy for modules: non-homogeneous module

28 Jul 2014 16:31 - John Abbott

Status:	In Progress	Start date:	15 Mar 2013
Priority:	Normal	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	40%
Category:	Improving	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99880	Spent time:	0.35 hour
Description Syz for modules with non-homogeneous input. Maybe the CoCoALib code works, but... needs proper testing. <pre>/**/ Use R ::= QQ[x,y,z]; /**/ I := ideal(x^2, x*y-1); /**/ syz(gens(I)); submodule(FreeModule(RingWithID(3,"QQ[x,y,z]"), 2), [[x*y -1, -x^2]]) /**/ syz(I);</pre>			
Related issues:			
Related to CoCoA-5 - Feature #330: Syzygy for modules: homogeneous module		Closed	15 Mar 2013
Related to CoCoALib - Feature #1206: syz, SyzOfGens: which shifts for zero?		Closed	02 Aug 2018

History

#1 - 28 Jul 2014 16:34 - Anna Maria Bigatti

- Subject changed from Syzygy for modules to Syzygy for modules: non-homogeneous module
- Status changed from In Progress to New
- Target version changed from CoCoA-5.1.1 Seoul14 to CoCoA-5.?.?
- % Done changed from 20 to 10

#2 - 26 Mar 2024 10:02 - Anna Maria Bigatti

- Status changed from New to Feedback
- Target version changed from CoCoA-5.?.? to CoCoA-5.4.2
- % Done changed from 10 to 90

This issue is old.

I'm making a test file test-sys.cocoa5.

I'll update and write there what we have working for homog and non-homog modules and ideals.

#3 - 26 Mar 2024 10:06 - Anna Maria Bigatti

- Target version changed from CoCoA-5.4.2 to CoCoA-5.4.4
- % Done changed from 90 to 10

#4 - 26 Mar 2024 17:14 - John Abbott

Good idea to make comprehensive tests.... perhaps not easy.
Why "feedback" and 10% complete?

#5 - 27 Mar 2024 17:24 - Anna Maria Bigatti

- Status changed from Feedback to In Progress

#6 - 27 Mar 2024 17:29 - Anna Maria Bigatti

- % Done changed from 10 to 40

#7 - 27 Mar 2024 17:31 - Anna Maria Bigatti

- Project changed from CoCoA-5 to CoCoALib

- Category changed from CoCoA-4 function to be added to Improving

- Target version changed from CoCoA-5.4.4 to CoCoALib-0.99880

I moved this issue from CoCoA-5 to CoCoALib

#8 - 28 Mar 2024 07:40 - Anna Maria Bigatti

- Related to Feature #1206: syz, SyzOfGens: which shifts for zero? added