CoCoA-5 - Bug #132

BringIn should allow reduction modulo p

17 Apr 2012 21:10 - John Abbott

Status:	Closed	Start date:	17 Apr 2012	2
Priority:	Normal	Due date:		
Assignee:	Anna Maria Bigatti	% Done:	100%	
Category:	CoCoA-4 function to be added	Estimated time:	2.00 hours	
Target version:	CoCoA-5.1.1 Seoul14	Spent time:	1.25 hour	
Description				
Currently BringIn do	es not allow one to move from char 0 to cl	har non-zero.		
Use QQ[x];				
f := x^2+1;				
Use QQ[x]; f := x^2+1; Use ZZ/(5)[x]; BringIn(f);				
f := x^2+1; Use ZZ/(5)[x];				
f := x^2+1; Use ZZ/(5)[x]; BringIn(f);				
<pre>f := x²+1; Use ZZ/(5)[x]; BringIn(f); Moreover the error r</pre>	> gives error			
<pre>f := x^2+1; Use ZZ/(5)[x]; BringIn(f); Moreover the error r Related issues:</pre>	> gives error	n its arg	New	07 Mar 2012

History

#1 - 23 Jan 2013 12:32 - Anna Maria Bigatti

- Category set to CoCoA-4 function to be added

#2 - 31 Mar 2014 11:26 - John Abbott

Even worse: BringIn fails to construct the hom from ZZ/(11)[x,y,z] to ZZ/(11)[x,y,z],Lex

This is embarassing!

Ahhhh! Perhaps the problem was that I created ZZ/(11) twice, and currently they are not regarded as identical.

#3 - 01 Apr 2014 13:21 - John Abbott

- Status changed from New to In Progress

The example given in the C5 online manual fails (because it uses reduction mod p).

#4 - 02 Apr 2014 17:34 - Anna Maria Bigatti

- Target version set to CoCoA-5.1.0 Easter14

#5 - 09 Apr 2014 14:56 - John Abbott

- Target version changed from CoCoA-5.1.0 Easter14 to CoCoA-5.1.1 Seoul14

#6 - 22 Jul 2014 09:19 - Anna Maria Bigatti

- Assignee set to Anna Maria Bigatti

- % Done changed from 0 to 50

now works in some cases, e.g. the one in the description ;-) More precisely it works if the coefficient ring (of the object to move) is a polynomial ring with coefficients in ZZ or QQ. A bit of a workaround, but that's what BringIn is by its very own nature. In general it is not guaranteed to work on more complicated ring structures, but in that case I would expect such a user would define a proper RINGHOM.

#7 - 04 Sep 2014 12:05 - John Abbott

- Status changed from In Progress to Closed

- % Done changed from 50 to 100

Closing even though it only partly resolves the problems with BringIn. I'll create a new, more precise issue.