

CoCoALib - Feature #123

IdealOfPoints with generic coeffs

04 Apr 2012 13:07 - Anna Maria Bigatti

Status:	New	Start date:	04 Apr 2012
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-1.0	Spent time:	1.00 hour
Description			
Think about the implementation of IdealOfPoints in the case of generic coefficients (e.g. in QQ(a)) Implement it and publish a paper about it!			
Related issues:			
Related to CoCoALib - Feature #144: Buchberger-Moeller: generic impl		Closed	01 May 2012
Related to CoCoALib - Feature #143: Buchberger-Moeller (parent task)		In Progress	01 May 2012
Related to CoCoA-5 - Feature #960: New function: IdealAndSeparatorsOfPoints		New	02 Nov 2016

History

#1 - 21 Jan 2013 15:21 - John Abbott

A reasonable outline of algorithm is:

1. Choose a suitable homomorphism (to a prime (finite?) field?).
2. Compute basis in homomorphic image.
3. Using the QB from homomorphic image, use lin alg to compute the GBasis.

#2 - 28 Jan 2013 08:03 - Anna Maria Bigatti

- Category set to New Function

#3 - 02 Apr 2014 09:39 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99532

Is this a duplicate of issue [#144](#)?

#4 - 03 Apr 2014 11:29 - John Abbott

- Target version changed from CoCoALib-0.99532 to CoCoALib-0.99533 Easter14

#5 - 07 Apr 2014 18:16 - John Abbott

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-0.99534 Seoul14

#6 - 09 Jul 2014 18:15 - John Abbott

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-1.0

#7 - 02 Nov 2016 09:02 - Anna Maria Bigatti

- Related to Feature #960: New function: IdealAndSeparatorsOfPoints added