

CoCoALib - Feature #203

Function to get the Hilbert Polynomial ring from GlobalManager

04 Jul 2012 11:20 - Anna Maria Bigatti

Status:	Closed	Start date:	04 Jul 2012
Priority:	High	Due date:	
Assignee:	Anna Maria Bigatti	% Done:	100%
Category:	New Function	Estimated time:	1.50 hour
Target version:	CoCoALib-0.99532	Spent time:	0.00 hour
Description			
The function MakeGlobalHPPowerList(const DenseUPolyRing& P) in GlobalManager.C creates a list of polynomials. Its ring (a DenseUPolyRing) should be easily accessible by users.			
Which name should it have?			
RingQQt?			
AMB 2013-07-23: John Abbott wrote RingQQt(n) (unique copy), for n indeterminates.			
It is not guaranteed to be the same ring as above, but it is a global ring which can be used for many purposes.			
Related issues:			
Related to CoCoALib - Feature #281: Store unique copy of FF(p) in GlobalManager		New	03 Dec 2012
Related to CoCoA-5 - Feature #93: Hilbert series: global output rings for non...		Closed	23 Feb 2012
Related to CoCoALib - Design #254: How to return a Hilbert Series in CoCoALib		Closed	08 Oct 2012
Related to CoCoALib - Feature #390: Store unique copy of QQ[t_1...t_n] (RingQQ...		Closed	23 Jul 2013

History

#1 - 05 Jul 2012 11:14 - Anna Maria Bigatti

Currently it is available calling the function

```
DenseUPolyRing StartPoincareQQt(int IndetsNo);
```

included in (include/)*/src/AlgebraicCore/TmpHilbertDir/TmpPoincareCPP.H*

IndetsNo is used for precomputing some powers of (1-x) -- used by the Hilbert algorithm.

#2 - 18 Jun 2013 23:05 - Anna Maria Bigatti

- Category set to New Function
- Status changed from New to In Progress
- Assignee set to Anna Maria Bigatti
- Target version set to CoCoALib-0.99534 Seoul14
- % Done changed from 0 to 50

Now that we have **RingQQt(n)** clean up older tentatives....

#3 - 23 Jul 2013 18:07 - Anna Maria Bigatti

- Status changed from In Progress to Feedback
- % Done changed from 50 to 90

#4 - 29 Oct 2013 14:56 - Anna Maria Bigatti

- Target version changed from CoCoALib-0.99534 Seoul14 to CoCoALib-0.99532

#5 - 21 Mar 2014 14:35 - Anna Maria Bigatti

- Status changed from Feedback to Closed

- Priority changed from Normal to High

- % Done changed from 90 to 100

working fine for 5 months. closing

#6 - 03 Apr 2014 11:52 - Anna Maria Bigatti

- Estimated time set to 1.50 h