

## CoCoALib - Feature #203

### Function to get the Hilbert Polynomial ring from GlobalManager

04 Jul 2012 11:20 - Anna Maria Bigatti

<b>Status:</b>	Closed	<b>Start date:</b>	04 Jul 2012
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Anna Maria Bigatti	<b>% Done:</b>	100%
<b>Category:</b>	New Function	<b>Estimated time:</b>	1.50 hour
<b>Target version:</b>	CoCoALib-0.99532	<b>Spent time:</b>	0.00 hour
<b>Description</b>			
The function <b>MakeGlobalHPPowerList(const DenseUPolyRing&amp; P)</b> in GlobalManager.C creates a list of polynomials. Its <b>ring</b> (a DenseUPolyRing) should be easily accessible by users.			
Which name should it have?			
<b>RingQQt?</b>			
<b>AMB 2013-07-23:</b> John Abbott wrote <b>RingQQt(n)</b> (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.			
<b>Related issues:</b>			
Related to CoCoALib - Feature #281: Store unique copy of FF(p) in GlobalManager		<b>New</b>	<b>03 Dec 2012</b>
Related to CoCoA-5 - Feature #93: Hilbert series: global output rings for non...		<b>Closed</b>	<b>23 Feb 2012</b>
Related to CoCoALib - Design #254: How to return a Hilbert Series in CoCoALib		<b>Closed</b>	<b>08 Oct 2012</b>
Related to CoCoALib - Feature #390: Store unique copy of QQ[t_1..t_n] (RingQQ...		<b>Closed</b>	<b>23 Jul 2013</b>

#### 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*