

## CoCoA-5 - Support #1741

### Documentation/Manual for HilbertFn

08 May 2023 20:47 - John Abbott

<b>Status:</b>	In Progress	<b>Start date:</b>	08 May 2023
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	20%
<b>Category:</b>	Manual/documentation	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoA-5.4.2	<b>Spent time:</b>	0.50 hour
<b>Description</b>			
The manual for <b>HilbertFn</b> seems to need improvement. <i>e.g.</i> HilbertFn appears to work for modules too.  The example with a module gives a different answer from what I get when I run the example. Something must be awry!			
<b>Related issues:</b>			
Related to CoCoA-5 - Support #1079: CoCoAManual: AffHilbertFn accepts also id...			<b>In Progress</b> <b>14 Jun 2017</b>

### History

#### #1 - 08 May 2023 20:47 - John Abbott

- Related to Support #1079: CoCoAManual: AffHilbertFn accepts also ideal (correct?) added

#### #2 - 10 May 2023 09:29 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 20

The example I tried is correct (as reported on the manual page).

I copied the second example **without noticing** that it uses the ring R set in the first example. Since CoCoA automatically starts with a ring called R the example ran anyway, but gave a different answer.

Should we take any action? *e.g.* change the name of the ring used in the example? Change the indet names?

#### #3 - 10 May 2023 20:49 - John Abbott

We could just change the second example so that it uses all the indets in the chosen ring; then I'd get an error (since t is not in the default polynomial ring R).

Initially I had thought of using a ring name like QQtxyz, but that is rather long and cumbersome.