

## CoCoALib - Bug #1423

### Radical 0-dim NYI? missing case for GBasisByHomog

25 Feb 2020 17:19 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	25 Feb 2020
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Anna Maria Bigatti	<b>% Done:</b>	100%
<b>Category:</b>	Improving	<b>Estimated time:</b>	0.51 hour
<b>Target version:</b>	CoCoALib-0.99800	<b>Spent time:</b>	0.60 hour
<b>Description</b>			
The following is annoying:			
<pre>use QQ[x,y,z],DegLex; L := [-x*z^2 -y +1, -y*z^2 -z^3, x^3 +z^2]; radical(ideal(L)); --&gt; ERROR: NOT YET IMPLEMENTED -- please be patient, we're working on it --&gt; [CoCoALib] GBasisByHomog: only for DegRevLex, lex --&gt; WHERE: at line 144 (column 31) of radical.cpkg5 --&gt;   if IsZeroDim(I) then return radical_tmp(I); endif; --&gt;                                     ^^^^^^^^^^^^^^^^^ CONTEXT: function radical at line 144 of radical.cpkg5</pre>			
<b>Related issues:</b>			
Related to CoCoALib - Feature #1212: New function: GBasisByHomog		<b>Closed</b>	<b>05 Aug 2018</b>
Related to CoCoALib - Feature #1434: GBasisByHomog for DegLex		<b>Closed</b>	<b>04 Mar 2020</b>

## History

### #1 - 25 Feb 2020 17:20 - John Abbott

I am pretty sure that this is not new, but i could not quickly find the relevant issue... so I have a new issue (2020-02-25).

### #2 - 25 Feb 2020 18:27 - Anna Maria Bigatti

- Related to Feature #1212: New function: GBasisByHomog added

### #3 - 04 Mar 2020 20:38 - John Abbott

- Related to Feature #1434: GBasisByHomog for DegLex added

### #4 - 25 Sep 2020 11:18 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 30

**CHECKED ON 2020-09-25** the example in the description now works.

Has this been fixed? By whom? Can we close the issue?

### #5 - 25 Sep 2020 16:58 - Anna Maria Bigatti

- Subject changed from Radical 0-dim NYI to Radical 0-dim NYI? missing case for GBasisByHomog

- Status changed from In Progress to Closed

- Assignee set to Anna Maria Bigatti

- % Done changed from 30 to 100

- Estimated time set to 0.51 h

John Abbott wrote:

**CHECKED ON 2020-09-25** the example in the description now works.

Has this been fixed? By whom? Can we close the issue?

I believe the problem was just due to a missing case in GBasisByHomog (no GB, no test for 0-dim)  
Closing.