CoCoALib - Bug #74

printing polynomials

22 Dec 2011 19:36 - Anna Maria Bigatti

Status:	New	Start date:	22 Dec 2011	
Priority:	Normal	Due date:		
Assignee:		% Done:	10%	
Category:	Various	Estimated time:	5.00 hours	
Target version:	CoCoALib-1.0	Spent time:	0.00 hour	
Description				
<pre>/**/ K ::= QQ[a,b]; R := NewFractionField(K); Use R[x]; /**/ x^2 - (1/(a))*x + 1;</pre>				
prints as				
$x^2 + (-1/a) x + 1$				
Does this look bad? Some considerations:				
 The original rule for writing polynomials was: "when the coefficient ring is not ZZ or QQ the coefficients are all printed within brackets", e.g. 				
$(1) * x^2 + (-1/a) * x + (1)$				
 Then I had to agree that so many "(1)*" and "(-1)*" looked quite heavy and I modified it: "when coefficients-fractions are not in QQ they are printed within brackets", e.g. 				
a*x^2 +(-2/a)*	x -3/5			
I'm undecided whether "x^2 - $(1/a)^*x + 1$ " is really better than "x^2 + $(-1/a)^*x + 1$ " (especially considering how tedious it is to describe and implement this case)				
Any opinion? Examples to be considered?				
Related issues:				
Related to CoCoALib - Fea	ture #222: Printing polynomials - spaces betwee	n terms	In Progress	08 Aug 2012
Related to CoCoALib - Fea	ture #1117: Better printing of negative coeffs		In Progress	07 Nov 2017
Related to CoCoALib - Des	ign #1156: Printing for RingElem		New	12 Feb 2018

History

#1 - 01 Apr 2014 17:35 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99533 Easter14

#2 - 04 Apr 2014 17:22 - John Abbott

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

#3 - 14 Jul 2014 11:07 - Anna Maria Bigatti

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

#4 - 07 Nov 2017 12:34 - John Abbott

- Related to Feature #1117: Better printing of negative coeffs added

#5 - 12 Feb 2018 12:33 - John Abbott

- Related to Design #1156: Printing for RingElem added