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

```
/**/ K ::= QQ[a,b]; R := NewFractionField(K); Use R[x]; 
/**/ x^2 - (1/(a)) *x + 1;
```

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 - Feature #222: Printing polynomials - spaces between terms	In Progress	08 Aug 2012
Related to CoCoALib - Feature #1117: Better printing of negative coeffs	In Progress	07 Nov 2017
Related to CoCoALib - Design #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

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#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

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