CoCoA-5 - Feature \#484
Evaluate in other ring (was called :: in CoCoA-4)
19 Mar 2014 21:50-John Abbott


## History

\#1-19 Mar 2014 21:52 - John Abbott

- Project changed from CoCoA to CoCoA-5

Sorry, I thought I was already in CoCoA-5

## \#2-19 Mar 2014 21:55 - John Abbott

- Subject changed from Evaluate in ring operator (:: in CoCoA-4) to Evaluate in ring operator (was called $::$ in CoCoA-4)

We must determine the exact semantics (C4 was pretty vague, I believe).
We should decide what syntax to use.
It might help solve the problem about printing matrices (\#18 post 3).

## \#3-20 Mar 2014 09:18 - Anna Maria Bigatti

- Category set to CoCoA-4 function to be added
- Target version set to CoCoA-5.1.0 Easter14

That would be handy! But I expect it to be hard to implement.

Right now the closer you can get to it is

```
PolyAlgHom(P1, P2, [RingElem(P2,"a")^2, RingElem(P2,"b")^3]);
```

I would suggest forcing parentheses

```
PolyAlgHom(P1, P2, P2::([a^2,b^3]) );
```


## \#4-04 Apr 2014 13:06-John Abbott

- Target version changed from CoCoA-5.1.0 Easter14 to CoCoA-5.?.?


## \#5-14 Jul 2014 08:22 - Anna Maria Bigatti

- Assignee set to Anna Maria Bigatti
- Target version changed from CoCoA-5.?.? to CoCoA-5.1.1 Seoul14
- \% Done changed from 0 to 10
- Estimated time set to 1.00 h

In CoCoALib we can read expressions from strings with ReadExpr(RING, STRING)
I'm going to add it to cocoa-5 so you can write:

PolyAlgHom(P1, P2, [ReadExpr(P2,"a^2"), ReadExpr(P2,"b^3")]);
and more complicated expressions like

ReadExpr ( $\mathrm{R}, \mathrm{"}(\mathrm{x}+\mathrm{y})$ * $\left(\mathrm{x}^{\wedge} 3-2 * \mathrm{y}-1\right)$ ");

## \#6-14 Jul 2014 09:26 - Anna Maria Bigatti

ReadExpr documented, cvs-ed
(updated entry for RingElem)
\#7-14 Jul 2014 09:29 - Anna Maria Bigatti

- \% Done changed from 10 to 50


## \#8-29 Jul 2014 09:29 - Anna Maria Bigatt

- Status changed from New to In Progress


## \#9-01 Aug 2014 10:54-Anna Maria Bigatti

- Subject changed from Evaluate in ring operator (was called :: in CoCoA-4) to Evaluate in other ring (was called :: in CoCoA-4)
- Status changed from In Progress to Feedback
- \% Done changed from 50 to 90


## \#10-01 Aug 2014 10:54-Anna Maria Bigatti

- Estimated time changed from 1.00 h to 1.51 h


## \#11-01 Aug 2014 10:56-Anna Maria Bigatti

the CoCoA-4 operator "::" is now in another specific issue.
For the time being I think that ReadExpr may be good enough.
\#12-11 Sep 2014 17:43-John Abbott

- Status changed from Feedback to Closed
- \% Done changed from 90 to 100

