

## CoCoALib - Feature #515

### Fn to "flatten" multiple polynomial extns

02 Apr 2014 18:30 - John Abbott

<b>Status:</b>	New	<b>Start date:</b>	02 Apr 2014
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	New Function	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoALib-1.0	<b>Spent time:</b>	0.25 hour
<b>Description</b>			
<p>In C5 a user can easily create a ring like <math>QQ[x][y]</math> which is obviously isomorphic to <math>QQ[x,y]</math>. CoCoA can do many operations on elements of the second ring, but would be stuck given the first ring (e.g. factorization, sqfrfactor, gcd)</p> <p>To make impl simpler have a fn which given a ring like <math>QQ[x][y]</math> produces a single-level poly extn together with two isomorphisms to move values back and forth.</p> <p>We'd also need fn to tell whether a ring is a multiple poly extn.</p>			
<b>Related issues:</b>			
Related to CoCoALib - Feature #47: Squarefree factorization - multivariate po...		<b>Closed</b>	<b>30 Nov 2011</b>
Related to CoCoALib - Feature #516: Make squarefreefactor work in multiple po...		<b>New</b>	<b>02 Apr 2014</b>

### History

#### #1 - 02 Apr 2014 18:39 - John Abbott

Once this has been impl'ed (if), we should go back and finish those issues which needed the capability. See the related issues list!

#### #2 - 10 Jul 2014 14:22 - John Abbott

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