

CoCoALib - Feature #62

polynomial coefficient extraction w.r.t. single variable -- dense output

13 Dec 2011 15:31 - John Abbott

<b>Status:</b>	Closed	<b>Start date:</b>	13 Dec 2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	John Abbott	<b>% Done:</b>	100%
<b>Category:</b>	New Function	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	CoCoALib-0.99534 Seoul14	<b>Spent time:</b>	0.25 hour
<b>Description</b> Given a polynomial $f$ and an indet $x$ , produce a vector of the coeffs of $f$ when viewed as a poly in $x$ . The resulting vector $v$ must satisfy $f = \sum_i v[i] x^i$ and each entry $v[i]$ is of degree 0 in $x$ .  The zero polynomial will produce an empty vector.  If $f$ is multivariate the vector entries must be in $\text{RingOf}(f)$ . If $f$ is univariate the vector entries <b>could</b> be in $\text{CoeffRing}(\text{RingOf}(f))$ -- but this would be incompatible with the multivariate version. Perhaps the fns should have different names?			
<b>Related issues:</b>			
Related to CoCoALib - Feature #51: polynomial coefficient extraction w.r.t. v...		Closed	
Related to CoCoALib - Feature #278: add CoeffVecWRT to cocoalib		Closed	28 Nov 2012

History

#1 - 26 Apr 2012 16:21 - Anna Maria Bigatti

- Parent task deleted (#51)

#2 - 01 Aug 2014 08:59 - Anna Maria Bigatti

- Target version set to CoCoALib-1.0

#3 - 01 Aug 2014 16:25 - John Abbott

- Category set to New Function

- Status changed from New to Closed

- Assignee set to John Abbott

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

- % Done changed from 0 to 100

This has already been done: it is the function **CoeffVecWRT**.  
Closing.