

CoCoALib - Feature #46

Feature # 39 (Closed): Squarefree factorization

Feature # 43 (Closed): Squarefree factorization - for polynomials

Feature # 44 (Closed): Squarefree factorization - univariate polynomials

Squarefree factorization - univariate polynomials, char $p > 0$

30 Nov 2011 17:26 - John Abbott

Status:	Closed	Start date:	20 Dec 2011
Priority:	Normal	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99531	Spent time:	0.45 hour
Description			
We consider only the case of prime characteristic.			
Needs more care than char=0 case because:			
<ul style="list-style-type: none">• p-th power of a poly has zero formal derivative• need to compute p-th roots of field elements• what happens if coeffs are not in a finite field? (e.g. $\mathbb{Z}\langle x \rangle[y]$ -- multivariate masquerading as univariate!)			
Subtasks:			
Feature # 69: p-th root			Closed
Related issues:			
Related to CoCoALib - Feature #796: CoCoALib function for radical (or SqFree)...		Closed	05 Nov 2015

History

#1 - 23 Oct 2013 20:23 - John Abbott

- Status changed from New to Closed

- Assignee set to John Abbott

This task is already handled by the port of d'Ali's impl of Bernardin's algm.

#2 - 29 Oct 2013 12:35 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99531