

CoCoALib - Feature #246

Approx QIR

01 Oct 2012 11:45 - John Abbott

Status:	New	Start date:	01 Oct 2012
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	New Function	Estimated time:	0.00 hour
Target version:	CoCoALib-1.0	Spent time:	0.10 hour
<b>Description</b> Implement (in C++) approximate QIR following the article by Kerber+Sagraloff (publ ISSAC 2011).  The impl will need to base itself on interval arithmetic (probably the impl in the GNU MPFR library).			
<b>Related issues:</b>			
Related to CoCoA-5 - Support #242: CoCoA-5 Projects for students (e.g. credit...		In Progress	28 Sep 2012
Related to CoCoALib - Feature #974: QIR/RealRootRefine: improve behaviour if ...		In Progress	17 Nov 2016

History

#1 - 01 Oct 2012 12:24 - John Abbott

The web page for MPFR reports that there is a library **MPFI** which implements interval arithmetic on top of MPFR.

#2 - 28 Jan 2013 08:07 - Anna Maria Bigatti

- Category set to New Function

#3 - 01 Apr 2014 17:35 - Anna Maria Bigatti

- Target version set to CoCoALib-0.99533 Easter14

#4 - 04 Apr 2014 17:16 - John Abbott

- Target version changed from CoCoALib-0.99533 Easter14 to CoCoALib-1.0

#5 - 17 Nov 2016 19:16 - John Abbott

- Related to Feature #974: QIR/RealRootRefine: improve behaviour if input interval has "nasty" endpoints added