

## CoCoALib - CoCoALib-0.99900 (Jul 2024)

#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
<b>None (1)</b>							
1803	Normal	Improve trivial operations with ideal whose GBasis is [1]	Anna Maria Bigatti	25 Mar 2024 19:06		0	
<b>Data Structures (4)</b>							
1784	Normal	Add flag <code>IhaveHomogGensValue</code> for ideals in <code>SparsePolyRing</code> ?		01 Mar 2024 14:36	Data Structures	0	
1115	Normal	New class: exterior algebra	John Abbott	31 Jan 2024 21:59	Data Structures	20	
1168	Normal	ideal: does <code>const ourGetPtr</code> really need to be private?		08 Mar 2024 17:26	Data Structures	40	8.0
1767	Normal	Finalize design for ideals in CoCoALib		08 Mar 2024 17:26	Data Structures	10	
<b>Documentation (4)</b>							
26	High	Redmine Administration	Anna Maria Bigatti	23 Feb 2024 10:59	Documentation	80	50.0
1607	Normal	Coding guidelines		16 Feb 2024 10:02	Documentation	0	
1672	Normal	Documentation: a good model to follow?		16 Feb 2024 09:33	Documentation	0	
1066	Normal	Documentation: translation table	Anna Maria Bigatti	08 Mar 2024 18:16	Documentation	30	
<b>Improving (10)</b>							
1582	Normal	Factorization in $K(a,b)[x,y]$		07 Mar 2024 20:23	Improving	0	
1786	Normal	Add new function for <code>IsInRadical</code> for monomial ideals? ( <code>RadicalMembership</code> )	Anna Maria Bigatti	01 Mar 2024 18:37	Improving	10	1.0
1802	Normal	Tidying ideal generators (for non-polynomial ideals)		25 Mar 2024 19:05	Improving	0	
1518	Normal	SLUG: Printing PPs with many indets		15 Feb 2024 22:45	Improving	20	
1645	Normal	Implement <code>monic0(f)</code> for the case <code>monic(0)</code> ?		16 Feb 2024 09:38	Improving	10	
1682	Normal	swap for new classes		16 Feb 2024 09:35	Improving	10	
1692	Normal	Suggestion: Add "JumpTo" function to prime iterators		15 Feb 2024 22:39	Improving	10	
1492	Low	submat of a submat		16 Feb 2024 17:28	Improving	0	
1588	Low	ElimMat is slow		22 Mar 2024 09:29	Improving	0	
1637	Low	Intersection of Ideals: has GBasis?		16 Feb 2024 17:25	Improving	0	
<b>New Function (15)</b>							
949	Normal	New function: <code>IdealWithIncrementalGBasis(l, f)</code>	Anna Maria Bigatti	16 Feb 2024 18:03	New Function	0	
1282	Normal	subresultant		08 Mar 2024 17:54	New Function	20	

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1433	Normal	HilbertDriven Buchberger Algorithm	Anna Maria Bigatti	16 Feb 2024 18:02	New Function	0	
1437	Normal	Filling matrix row/col from a vector		15 Feb 2024 22:46	New Function	0	
1441	Normal	GFan: port CoCoA_5 functions into CoCoALib	Anna Maria Bigatti	16 Feb 2024 17:54	New Function	0	
1470	Normal	Get indexed indets from a polyring		07 Mar 2024 20:36	New Function	0	
1785	Normal	Add function IsHomog3(l)?		01 Mar 2024 14:53	New Function	0	
1797	Normal	Add a function CleanupGens making some easy cleaning on the generators?		25 Mar 2024 19:16	New Function	0	
1468	Normal	Adjoin indets to a poly ring		15 Feb 2024 22:45	New Function	10	
1482	Normal	Extended rationals: PlusInfinity and MinusInfinity		16 Feb 2024 18:02	New Function	10	
1532	Normal	Convenient RingHom pseudo-ctors		07 Mar 2024 21:34	New Function	10	
1815	Normal	JSON and UUID		02 May 2024 19:58	New Function	10	
1602	Low	Sparse matrix (SparseMat)		15 Feb 2024 22:42	New Function	0	
1472	Low	Idea for for loops		16 Feb 2024 09:55	New Function	10	
1652	Low	Add LM to cocoalib ?		15 Feb 2024 22:41	New Function	10	

### Portability (3)

1225	High	Move to C++14 (skipping C++11)		08 Mar 2024 17:46	Portability	30	
1630	Normal	Signal handler not portable?		15 Feb 2024 22:42	Portability	0	
1804	Normal	Use long long (at least sometimes)?	John Abbott	26 Apr 2024 21:09	Portability	80	

### Renaming (1)

942	Normal	Which names to use? Intersection/saturation vs intersect/saturate		22 Mar 2024 10:20	Renaming	20	
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### Safety (3)

1691	Normal	Random and threadsafe?		15 Feb 2024 22:38	Safety	0	
1813	Normal	Some tests have become slower		07 Apr 2024 21:53	Safety	10	
1814	Normal	Ensure tests do not need too much RAM		23 Apr 2024 22:14	Safety	30	

### Tidying (5)

385	Urgent	Design new errors using inheritance	John Abbott	09 Feb 2024 10:25	Tidying	40	35.0
1213	Normal	Create PolyOps-RingElem?		16 Feb 2024 09:48	Tidying	0	
1666	Normal	MachineInt: chase through ULL changes		16 Apr 2024 22:40	Tidying	10	
1783	Normal	Code & doc structure: one-big-file or many-small-files?		24 Feb 2024 18:34	Tidying	10	
1702	Low	Use C++ attributes		22 Apr 2024 21:26	Tidying	10	

### Various (1)

#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
1810	Normal	Release CoCoALib 0.99900		29 Mar 2024 09:00	Various	0	