

## CoCoA - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
813	CoCoALib		Immediate	Implement "elim" in CoCoALib	Anna Maria Bigatti	18 Mar 2024 15:58	New Function	90
1534	CoCoA-5		Immediate	Install CoCoA-5 on MacOS-10.15+		07 Oct 2022 14:35	Manual/documentation	50
1683	CoCoALib		Immediate	Islrred in ZZ[x,y]	John Abbott	16 Feb 2024 09:39	Improving	0
912	CoCoA-5		Urgent	Add TUTORIALs to online manual		17 Oct 2022 14:02	Manual/documentation	80
743	CoCoALib		Urgent	Better errors: give supplementary info about the error		15 Mar 2024 18:33	Improving	10
143	CoCoALib		Urgent	Buchberger-Moeller (parent task)	John Abbott	10 Jul 2014 14:16	New Function	38
145	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Urgent	Buchberger-Moeller: fast modular impl	John Abbott	10 Jul 2014 14:17	New Function	0
147	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Urgent	Buchberger-Moeller: impl via modular reduction	John Abbott	10 Jul 2014 14:18	New Function	20
1010	CoCoALib		Urgent	C++11: Mario's Hilbert scheme code		20 Feb 2017 13:19	Portability	0
385	CoCoALib		Urgent	Design new errors using inheritance	John Abbott	09 Feb 2024 10:25	Tidying	40
802	CoCoALib		Urgent	DivMask: extend interface?	John Abbott	08 Mar 2024 17:36	New Function	50
474	CoCoA-5		Urgent	Eliminate package BinRepr	Anna Maria Bigatti	03 Feb 2022 19:47	Cleaning	50
946	CoCoA-5		Urgent	Function "ideal" evaluates the argument twice	Anna Maria Bigatti	23 Feb 2022 12:14	Parser/Interpreter	80
1667	CoCoALib		Urgent	GBasis over ZZ: port to CoCoALib		29 Apr 2024 21:13	Improving	10
1781	CoCoA-5		Urgent	GenReprCompute: SERIOUS ERROR	Anna Maria Bigatti	09 Feb 2024 08:16	bug	90
664	CoCoALib		Urgent	Impl small non-prime finite fields (using logs)	John Abbott	14 Mar 2023 19:49	New Function	80
872	CoCoALib		Urgent	LinSolve for matrices over FFp	John Abbott	08 Mar 2024 17:36	Improving	30
206	CoCoALib		Urgent	Matrix equation solving: LinKer		22 Mar 2024 09:42	New Function	30
1246	CoCoA-5		Urgent	Revive old CoCoA4 package called "cocoa5.cpkg"	Anna Maria Bigatti	14 Mar 2023 11:58	CoCoA-4 function to be added	90
399	CoCoALib		High	add myHilbertSeries member field to ideal and (sub)module	Anna Maria Bigatti	30 Jul 2014 17:04	New Function	0
386	CoCoALib		High	add resolution data type	Anna Maria Bigatti	11 Jun 2015 14:58	New Function	10
7	CoCoA-5		High	Automatic mapping between (some) rings	Anna Maria Bigatti	10 Mar 2023 17:08	Parser/Interpreter	80
1280	CoCoALib		High	Determinant & Inverse of matrix over non integral domain	John Abbott	21 Jan 2024 19:43	Improving	40
1561	CoCoALib		High	Doc for module term orderings		08 Mar 2024 17:38	Documentation	0

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1741	CoCoA-5		High	Documentation/Manual for HilbertFn		10 May 2023 20:49	Manual/documentation	20
78	CoCoA-5		High	Elim ordering and matrix ordering in CoCoA-5	Anna Maria Bigatti	28 Mar 2024 07:25	CoCoA-4 function to be added	50
313	CoCoALib		High	Elim(vector<long>) as PPOrderingCtor	Anna Maria Bigatti	22 Mar 2024 18:17	New Function	30
308	CoCoALib		High	Error: ERR::NotNonZero instead of ERR::ZeroRingElem?		27 Mar 2024 17:37	Renaming	40
1281	CoCoALib		High	Factor of multivariate sometimes prints ERROR		21 Jan 2024 20:03	Maths Bugs	10
1233	CoCoALib		High	factor SEGV -- too large characteristic	John Abbott	14 Mar 2023 19:45	Maths Bugs	60
817	CoCoALib		High	GenRepr in CoCoALib?		17 Nov 2016 14:12	New Function	0
387	CoCoALib		High	implement algorithm(s) for resolutions	Anna Maria Bigatti	30 Jul 2014 17:04	New Function	0
322	CoCoA-5		High	Installation instructions (on website)	Anna Maria Bigatti	13 Jun 2022 15:32	Manual/documentation	60
1414	CoCoALib		High	Make class RingElemVector?		25 Apr 2024 21:53	Data Structures	20
1740	CoCoALib		High	MinGens gives non minimal gens *if some deg=0*	Anna Maria Bigatti	22 Mar 2024 18:04	Maths Bugs	30
409	CoCoALib		High	Minimal syzygies (optimized implementation)	Anna Maria Bigatti	31 Jul 2014 12:36	New Function	0
263	CoCoALib		High	Move the various <matrix>::mySetEntry procedures into MatrixBase		01 Aug 2014 16:29	Tidying	0
1225	CoCoALib		High	Move to C++14 (skipping C++11)		08 Mar 2024 17:46	Portability	30
171	CoCoA-5		High	Negate LIST, MAT,...		04 Apr 2014 16:27	CoCoA-4 function to be added	0
898	CoCoALib		High	New function: cardinality of finite field?	Anna Maria Bigatti	08 Mar 2024 17:45	New Function	20
388	CoCoA-5		High	port optimized resolutions to CoCoA-5	Anna Maria Bigatti	02 Jul 2014 16:13	CoCoA-4 function to be added	0
440	CoCoALib		High	Port RealRoots to C++	John Abbott	19 Oct 2016 10:26	New Function	0
513	CoCoALib		High	Quick/correct flag for bool3 fns		10 Jul 2014 16:30	New Function	10
26	CoCoALib		High	Redmine Administration	Anna Maria Bigatti	23 Feb 2024 10:59	Documentation	80
1568	CoCoA-5		High	RMap and image: obsolescent?	Anna Maria Bigatti	17 Oct 2022 14:04	CoCoA-4 function: obsolete	40
1228	CoCoA-5		High	SLUG: filling an array	John Abbott	03 Feb 2022 19:42	bug	30
1057	CoCoALib		High	Slug: Polynomial ring constructor slow with (big) matrix ordering	Anna Maria Bigatti	22 Mar 2024 09:31	Improving	50
6	CoCoALib		High	Sort out RingElem, RefRingElem, ConstRefRingElem mess	John Abbott	01 Aug 2014 08:59		0
709	CoCoA-5		High	Speed of some Normaliz calls (NmzComputation)		03 Feb 2022 19:23	External Libs	10

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685	CoCoALib		High	Use DivMask inside QBGenerator		02 Feb 2016 14:16	Tidying	0
1474	CoCoA-5		High	Website: link to JSAG?		16 Feb 2022 20:27	Release	0
550	CoCoALib		Normal	add myResolution member field to ideal and (sub)module		13 May 2015 09:57	Data Structures	0
597	CoCoA-5		Normal	Interpreter.C: remove calls to WrongTypeException		02 Mar 2020 21:45	Parser/Interpreter	0
1207	CoCoALib		Normal	New function: SubmoduleOfGBasis		18 Mar 2024 09:33	New Function	0
1208	CoCoALib		Normal	New function: Threadsafe RandomLinearForm (CoCoALib)		01 Oct 2019 11:28	Safety	0
977	CoCoA-5		Normal	"universal denominator" (related with GroebnerFanIdeals)		03 Feb 2022 19:11	CoCoA-4 function to be added	20
13	CoCoA-5		Normal	(short) manual for emacs interface		12 Oct 2016 16:56	Manual/documentation	0
287	CoCoA-5		Normal	--fullCoCoALibError prints too much (Try/UponError)	Anna Maria Bigatti	02 Sep 2016 13:54	Parser/Interpreter	10
678	CoCoALib		Normal	Accumulator (like a geobucket)		17 Nov 2016 19:03	New Function	20
1797	CoCoALib		Normal	Add a function CleanupGens making some easy cleaning on the generators?		25 Mar 2024 19:16	New Function	0
1805	CoCoA-5		Normal	Add CoCoA-5 syntax: syz(<F,> list of ModuleElem)	Anna Maria Bigatti	26 Mar 2024 12:16	Incomplete function	0
1596	CoCoA-5		Normal	Add CoCoA5 function NmzHilbertBasisKer	Anna Maria Bigatti	14 Mar 2023 14:59	CoCoA-5 function: new	80
315	CoCoALib		Normal	Add doc for ApproxPts2		10 Jul 2014 16:23	Documentation	0
1784	CoCoALib		Normal	Add flag IhaveHomogGensValue for ideals in SparsePolyRing?		01 Mar 2024 14:36	Data Structures	0
1785	CoCoALib		Normal	Add function IsHomog3(l)?		01 Mar 2024 14:53	New Function	0
614	CoCoA-5		Normal	Add functions based on MayerVietorisTree	Anna Maria Bigatti	04 Sep 2014 14:05	CoCoA-4 function to be added	10
235	CoCoA-5		Normal	Add LucasTest to cocoa5?		04 Apr 2014 16:38	CoCoA-5 function: new	0
703	CoCoALib		Normal	Add more operations between modules (CoCoALib)	Anna Maria Bigatti	27 Oct 2017 11:53	New Function	10
702	CoCoA-5		Normal	Add more operations for modules	Anna Maria Bigatti	15 May 2015 09:05	CoCoA-4 function to be added	0
400	CoCoALib		Normal	add myJBMill member field to ideal		15 Sep 2014 12:04	New Function	0
1786	CoCoALib		Normal	Add new function for IsInRadical for monomial ideals? (RadicalMembership)	Anna Maria Bigatti	01 Mar 2024 18:37	Improving	10
1549	CoCoA-5		Normal	Add sagbi package	Anna Maria Bigatti	18 Feb 2022 16:18	CoCoA-5 function: new	10
740	CoCoALib		Normal	Addition of sparse (multivariate) polynomials		17 Jun 2016 14:35	Improving	0
1468	CoCoALib		Normal	Adjoin indets to a poly ring		15 Feb 2024 22:45	New Function	10
808	CoCoALib		Normal	Alg Extn by non-zero dim ideal		18 Nov 2015 23:29	Tidying	0

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1339	CoCoALib		Normal	All PPs of given wdeg		16 Oct 2019 14:04	New Function	0
1271	CoCoA-5		Normal	Allow Interruption of printing?		17 Apr 2019 10:17	enhancing/improving	10
375	CoCoA-5		Normal	allow single function call in "use" : e.g. "Use NewFractionField(R);"		02 Sep 2014 11:14	Parser/Interpreter	0
570	CoCoALib		Normal	Allow use of RingElem instead of ring in some functions (e.g. PPM, CoeffRing)		16 Jul 2014 14:43	New Function	0
1644	CoCoA-5		Normal	Allow user to choose whether to print finite field elems as symm residues or non-neg residue		03 Feb 2022 19:15	CoCoA-5 function: new	10
420	CoCoALib		Normal	Allow user to give a name to a ring		13 May 2015 09:55	Improving	0
421	CoCoA-5		Normal	Allow user to give a name to a ring (in C5)		18 Jul 2014 15:05		10
1343	ApCoCoA		Normal	ApCoCoA projects		16 Oct 2019 15:10		0
1354	ApCoCoA		Normal	ApCoCoA: separate window for manual		29 Oct 2019 11:30		0
862	CoCoA-5		Normal	append has bad complexity		05 Apr 2016 13:40	enhancing/improving	0
1229	CoCoA-5		Normal	append is slow		04 Nov 2021 20:28	bug	0
1730	CoCoALib		Normal	ApplySPRCodomain: relax power/exponent check		27 Nov 2023 20:30	Improving	0
246	CoCoALib		Normal	Approx QIR		04 Apr 2014 17:16	New Function	0
175	CoCoA-5		Normal	Approximate BuchbergerMoeller: port to CoCoA-5	Anna Maria Bigatti	14 Mar 2023 22:12	CoCoA-4 function to be added	70
1648	CoCoA-5		Normal	ApproxSolve and RationalSolve take different input		03 Feb 2022 19:08	Cleaning	0
1574	CoCoA-5		Normal	ApproxSolveTF		24 Sep 2021 22:29	bug	0
198	CoCoA-5		Normal	Appunti per (eventuale) tesi triennale Informatica: CoCoA GUI		30 Sep 2022 19:05	GUI	0
435	CoCoA-5		Normal	Assignment to protected variable		04 Apr 2014 17:05	Parser/Interpreter	0
453	CoCoA-5		Normal	Automatic conversion from INT (or RAT) to RINGELEM		02 Sep 2014 11:15		20
1313	CoCoA-5		Normal	Automatic conversion from RINGELEM to INT		03 Feb 2022 19:21	enhancing/improving	0
112	CoCoALib		Normal	automatic creation of all function signatures		07 Apr 2014 14:34	Documentation	0
1445	CoCoA-5		Normal	Automatic way to produce statically linked CoCoAInterpreter		03 Feb 2022 19:38	Release	0
1584	CoCoALib		Normal	Benchmarks?		08 Mar 2023 19:41	Documentation	0
129	CoCoALib		Normal	Better GCD		09 Jul 2014 18:08	New Function	0
1117	CoCoALib		Normal	Better printing of negative coeffs		23 Sep 2019 11:52	Improving	10
1513	CoCoALib		Normal	Better test for univariate-ness (and better conversion)		16 Mar 2024 21:38	Improving	0
729	CoCoALib		Normal	Betti numbers, betti diagram		14 Jun 2018 15:54	Data Structures	10
873	CoCoALib		Normal	bool3: add some logical operations?		21 Jun 2016 14:37	New Function	10
100	CoCoA-5		Normal	BringIn should map only the indets in its arg		26 Sep 2022 20:25	Incomplete function	0
644	CoCoALib		Normal	Buchberger-Moeller: add option to stop as soon as 1 poly has been found	John Abbott	06 Nov 2017 13:58	New Function	0

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146	CoCoALib		Normal	Buchberger-Moeller: input conversions		10 Jul 2014 14:17	New Function	0
422	CoCoA-5		Normal	Bug or feature for protected name? (Use command)		04 Apr 2014 15:09		0
1670	CoCoALib		Normal	Build also dynamic/shared library for CoCoALib?		07 Mar 2024 21:33	Portability	0
1801	CoCoALib		Normal	BuildInfo		13 Apr 2024 22:18	Tidying	10
1679	CoCoA-5		Normal	BuiltinFunctions-GFan includes normaliz?!?		20 Apr 2022 21:49	Cleaning	0
1622	CoCoA-5		Normal	BuiltinOneLiners -- less precise location in error messages		18 Mar 2024 21:16	enhancing/improving	0
326	CoCoALib		Normal	C++ nasty surprises		07 Apr 2014 18:13	Portability	10
83	CoCoA-5		Normal	C++11 compatibility questions		03 Feb 2022 19:59	Portability	40
1346	CoCoALib		Normal	C++14: use the new for loop syntax where appropriate (like cocoa's foreach)		22 Apr 2024 21:08	Improving	80
1242	CoCoALib		Normal	C++14: Use type auto where appropriate		22 Apr 2024 21:08	Tidying	40
1632	CoCoALib		Normal	C++17: notes about updating		12 Nov 2021 18:11	Portability	0
148	CoCoA-5		Normal	C-c C-p in emacs goes to wrong line		06 Oct 2022 20:15	EmacsUI	20
917	CoCoA-5		Normal	CallOnGroebnerFanIdeals: better to use an iterator (or a "stream")		26 Nov 2016 17:46	enhancing/improving	0
1132	CoCoALib		Normal	Canonical homomorphism for (some) polynomial rings?	Anna Maria Bigatti	08 Mar 2024 18:01	New Function	0
1593	CoCoA-5		Normal	CanonicalHom		07 May 2021 08:20		0
1624	CoCoA-5		Normal	CantStop playing CantStop		15 Jan 2024 19:55	enhancing/improving	0
1811	CoCoALib		Normal	Check include guards	John Abbott	22 Apr 2024 20:15	Tidying	90
497	CoCoALib		Normal	Clang: automatic bug finding		04 Apr 2014 17:20	Safety	0
791	CoCoALib		Normal	Clean code for DistrMPolyClean	Anna Maria Bigatti	02 Nov 2015 22:13	Tidying	0
1799	CoCoALib		Normal	Clean out OLD CODE?		24 Mar 2024 10:52	Tidying	0
1736	CoCoALib		Normal	Clean TmpGOperations, and remove Tmp prefix		28 Apr 2023 16:01	Tidying	0
929	CoCoA-5		Normal	Clean up CoCoALibSupplement	Anna Maria Bigatti	03 Feb 2022 19:48	Cleaning	20
1351	CoCoA-5		Normal	Clean up package points.cpkg		25 Oct 2019 13:34	Cleaning	0
1160	CoCoALib		Normal	Clean up revised RatReconstructByContFrac code	John Abbott	26 Feb 2019 16:33	Tidying	0
1179	CoCoALib		Normal	Clean up SparsePolyOps-MonomialIdeals	Anna Maria Bigatti	22 Mar 2024 09:33	Tidying	20
491	CoCoA-5		Normal	Cleaning: Cruft in CoCoA-5 packages		25 Jul 2018 14:26	Cleaning	20
87	CoCoALib		Normal	Cleanup header for ring classes (so that they are e-diff-able)	Anna Maria Bigatti	10 Jul 2014 16:26	Tidying	10
849	CoCoALib		Normal	Cleanup MinPoly code	Anna Maria Bigatti	08 Mar 2024 18:15	Tidying	10

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1576	CoCoALib		Normal	cmp for machine integers	John Abbott	21 Jan 2024 20:23	Improving	20
1544	CoCoA-5		Normal	CoCoA coding conventions for parser/interprer?		11 Dec 2020 12:01	Parser/Interpreter	10
1350	CoCoA-5		Normal	CoCoA manual: entry for operators, shortcuts		05 Feb 2022 20:35	Manual/documentation	0
1107	CoCoA-5		Normal	CoCoA Online: install (using InteractiveShell)	Anna Maria Bigatti	16 Oct 2017 16:54	CoCoA-5 function: new	10
1234	CoCoA-5		Normal	CoCoA should read unicode		01 Oct 2019 14:36	Parser/Interpreter	0
770	CoCoA-5		Normal	CoCoA type "cone"		22 May 2017 14:12		0
1762	CoCoA-5		Normal	CoCoA web site "analytics"	Anna Maria Bigatti	21 Aug 2023 18:20	enhancing/improving	10
1320	CoCoA-5		Normal	CoCoA-5 manual: incorrect empty line in syntax box (in PDF file)		04 Nov 2021 23:16	Manual/documentation	0
242	CoCoA-5		Normal	CoCoA-5 Projects for students (e.g. crediti F and tesi)		21 Oct 2022 15:53	CoCoA-5 function: new	10
1776	CoCoA-5		Normal	CoCoA-5 releases on redmine	Anna Maria Bigatti	12 Jan 2024 11:53	Manual/documentation	70
769	CoCoALib		Normal	CoCoALib cone		27 Jan 2020 15:32	Data Structures	10
1775	CoCoALib		Normal	CoCoALib releases on redmine	Anna Maria Bigatti	03 May 2024 07:32	Documentation	70
1001	CoCoALib		Normal	CoCoALib: ideas for student projects		18 Feb 2022 16:57	New Function	10
1079	CoCoA-5		Normal	CoCoAManual: AffHilbertFn accepts also ideal (correct?)		08 May 2023 20:44	Manual/documentation	20
177	CoCoA-5		Normal	CoCoAManual: General part of the documentation is obsolete: update? discard?	Anna Maria Bigatti	10 Mar 2023 17:02	Manual/documentation	70
557	CoCoA-5		Normal	CoCoAManual: improve part on input/output	Anna Maria Bigatti	03 Feb 2022 20:15	Manual/documentation	0
1054	CoCoA-5		Normal	CoCoAManual: improved search, or improved selection of "see also" pages		28 Apr 2017 11:42	Manual/documentation	0
360	CoCoALib		Normal	CoCoAServer: what future, what issues?		28 Apr 2017 11:19	Various	0
1783	CoCoALib		Normal	Code & doc structure: one-big-file or many-small-files?		24 Feb 2024 18:34	Tidying	10
1607	CoCoALib		Normal	Coding guidelines		16 Feb 2024 10:02	Documentation	0
980	CoCoA-5		Normal	CoeffSize: function to measure the size of coeffs in a poly		28 Nov 2023 22:29	CoCoA-5 function: new	20
363	CoCoA-5		Normal	Colon operator, 2nd arg		09 Apr 2014 15:07	Parser/Interpreter	0
302	CoCoALib		Normal	Compilation on M\$Windows: Visual Studio		22 Mar 2024 23:13	Portability	60
1665	CoCoALib		Normal	Compilation on Windows: problems for normaliz	Anna Maria Bigatti	18 Mar 2024 09:27	Documentation	0
628	CoCoALib		Normal	Complex twin-floats		22 Sep 2014 18:16	New Function	0
1798	CoCoALib		Normal	Computing in sub polyring		22 Mar 2024 09:30	Improving	0
617	CoCoALib		Normal	configure: check all libraries for compatibility		09 Sep 2014 12:21	Portability	0

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758	CoCoALib		Normal	configure: have option to say to look for external libs		03 Sep 2015 11:41	Improving	10
1772	CoCoA-5		Normal	Continued fraction: arg type RAT or RAT/INT?		28 Nov 2023 22:17	enhancing/improving	0
134	CoCoALib		Normal	Convenience ring ctors and homs		11 Jul 2014 12:06	New Function	0
1532	CoCoALib		Normal	Convenient RingHom pseudo-ctors		07 Mar 2024 21:34	New Function	10
1800	CoCoALib		Normal	Conversion from SmallPrime to UNSIGNED long?		15 Apr 2024 10:09	Tidying	10
127	CoCoALib		Normal	Convert DUPFF code to C++	John Abbott	28 Sep 2022 15:04	New Function	50
161	CoCoALib		Normal	Convert old "task table" into redmine		07 Apr 2014 14:35	Documentation	0
1792	CoCoALib		Normal	CpuTimeOut: arg of type ErrorContext?		18 Mar 2024 20:50	Tidying	0
1305	CoCoA-5		Normal	Create a directory		02 Sep 2019 16:31	CoCoA-5 function: new	10
1213	CoCoALib		Normal	Create PolyOps-RingElem?		16 Feb 2024 09:48	Tidying	0
1378	CoCoALib		Normal	Create two separate radical fns (for 0-dim ideals)		03 Jul 2023 17:49	Improving	0
677	CoCoA-5		Normal	Credits to CoCoA-5 contributors		15 Nov 2019 15:28	Manual/documentation	0
676	CoCoALib		Normal	Credits to CoCoALib contributors	Anna Maria Bigatti	28 Apr 2017 11:06	Documentation	10
778	CoCoALib		Normal	CRTMill::myAddInfo accept modulus 1 or not?		21 Mar 2016 15:16	Tidying	0
1727	CoCoALib		Normal	Cruft in ExtLibs-Normaliz.C		13 Mar 2023 19:01	Tidying	0
1098	CoCoALib		Normal	Ctors for exceptions/errors		06 Sep 2017 15:27	Tidying	0
1559	CoCoALib		Normal	Default ctor for rings		13 Mar 2024 20:42	Improving	10
1756	CoCoALib		Normal	deg(f) is slow if f is long	John Abbott	21 Mar 2024 20:40	Improving	50
1428	CoCoALib		Normal	DenseMatrix: use template impl for ctors from vec-vec?		07 Mar 2024 20:49	Tidying	0
921	CoCoALib		Normal	Design GBMill		22 May 2017 14:11		0
130	CoCoALib		Normal	Design problem in ideals		13 May 2015 09:56	Data Structures	0
1600	CoCoALib		Normal	Detect updated versions of external libs		16 Feb 2024 10:02	Safety	10
1711	CoCoALib		Normal	Development releases?	Anna Maria Bigatti	09 Mar 2023 20:56	Various	90
1765	CoCoA-5		Normal	Difference between seealso and keys?		16 Oct 2023 20:02	Manual/documentation	0
838	CoCoALib		Normal	Differential algebra		24 Oct 2016 15:32	New Function	10
680	CoCoALib		Normal	DistrMPolyClean does not use MemPool for summands?	John Abbott	07 Mar 2023 20:49	Tidying	70
884	CoCoALib		Normal	DistrMPolyInIPP::myPushFront and DistrMPolyInIPP::myPushBack inefficient if arg is a PP		24 May 2016 15:25	Improving	0
1720	CoCoALib		Normal	DivAlg in CoCoALib	Anna Maria Bigatti	25 Mar 2024 17:55	Tidying	20
1556	CoCoA-5		Normal	DivAlg slower than NR	Anna Maria Bigatti	08 Jan 2021 11:20	enhancing/improving	10
1497	CoCoALib		Normal	Doc for normaliz fns		08 Mar 2023 19:40	Documentation	0

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1621	CoCoA-5		Normal	Doc for the various BuiltIn files		18 Oct 2021 11:26	Manual/documentation	0
1480	CoCoA-5		Normal	Documentation for making ring with parameters		03 Feb 2022 20:18	Manual/documentation	0
296	CoCoA-5		Normal	Documentation for Parser/Interpreter	Anna Maria Bigatti	09 Apr 2014 17:22	Manual/documentation	10
1611	CoCoALib		Normal	Documentation for PrimaryDecomposition		16 Feb 2024 09:42	Documentation	0
231	CoCoALib		Normal	Documentation for QBGenerator needs to be improved.		09 Jul 2014 18:06	Documentation	0
569	CoCoALib		Normal	Documentation for ReductionCog		11 Jun 2014 16:04	Documentation	0
1510	CoCoALib		Normal	Documentation for SparsePolyOps?		18 Mar 2024 09:45	Documentation	30
1672	CoCoALib		Normal	Documentation: a good model to follow?		16 Feb 2024 09:33	Documentation	0
1812	CoCoALib		Normal	Documentation: indexXX.html should be recompiled if version has changed		29 Mar 2024 10:37	Documentation	0
1066	CoCoALib		Normal	Documentation: translation table	Anna Maria Bigatti	08 Mar 2024 18:16	Documentation	30
505	CoCoALib		Normal	Documentation: write doc for RingDenseUPolyClean	Anna Maria Bigatti	21 Sep 2016 17:15	Documentation	0
1575	CoCoALib		Normal	DynamicBitset missing arg checks	Anna Maria Bigatti	16 Feb 2024 09:46	Safety	0
600	CoCoA-5		Normal	efficient subalgebras	Anna Maria Bigatti	30 Jul 2014 17:29	enhancing/improving	0
442	CoCoALib		Normal	Eigenvectors		09 Jul 2014 18:05	New Function	0
1104	CoCoA-5		Normal	Eigenvectors: inconsistent return type	John Abbott	03 Feb 2022 19:20	enhancing/improving	10
1560	CoCoA-5		Normal	elim for modules		03 Feb 2022 19:55	enhancing/improving	0
547	CoCoALib		Normal	elim using RingTwinFloat triggers error "SERIOUS"		15 Jun 2016 14:35	Various	0
277	CoCoALib		Normal	Eliminate class RefPPMonoidElem?		01 Aug 2014 08:59		0
477	CoCoA-5		Normal	Eliminate keyword Alias?		04 Apr 2014 14:31	Cleaning	0
1432	CoCoA-5		Normal	Emacs UI: cocoa5-shell-check-process vs. process-status		05 Nov 2021 16:32	EmacsUI	0
1314	CoCoA-5		Normal	Emacs UI: open manual pages in a separate frame?		27 Sep 2019 17:23	Manual/documentation	10
1363	CoCoA-5		Normal	Emacs UI: slow with long lines		15 Jan 2024 19:32	EmacsUI	10
434	CoCoA-5		Normal	Emacs UI: very slow when input file is big (with long lines)		09 Apr 2014 15:52	EmacsUI	0
465	CoCoA-5		Normal	Emacs UI; remove cruft		13 Nov 2020 11:17	Cleaning	0
920	CoCoA-5		Normal	Empty matrix: warning, error, or empty matrix?		08 Sep 2016 11:45	Incomplete function	10
1814	CoCoALib		Normal	Ensure tests do not need too much RAM		23 Apr 2024 22:14	Safety	30
92	CoCoALib		Normal	Error Codes		19 Apr 2017 08:31	Various	0
1807	CoCoALib		Normal	Error codes: "Not..." for "blah must be ..." -- change prefix		26 Mar 2024 14:22	Renaming	0



#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
582	CoCoALib		Normal	Error codes: use same code for "not poly ring" and "not elem poly ring"		26 Mar 2024 14:36	Tidying	30
427	CoCoALib		Normal	Error names and error messages (current design)		11 May 2017 10:57	Data Structures	10
95	CoCoA-5		Normal	Error/warning if fn-proc is neither fn nor proc?		15 Jun 2016 14:13	Parser/Interpreter	0
888	CoCoA-5		Normal	Escaped newline to allow a long line to be split into several "physical lines"		07 Jun 2016 00:26	enhancing/improving	0
656	CoCoA-5		Normal	eval: in which ring should the result be?		20 Jan 2015 20:25	enhancing/improving	0
1732	CoCoA-5		Normal	EvalPolyAtMat		28 Mar 2023 16:35	CoCoA-5 function: new	0
972	CoCoALib		Normal	ex-PolyIterator		17 Nov 2016 13:21	Documentation	0
725	CoCoALib		Normal	Example database: Slow ideal equality test		10 Jun 2015 14:24	Various	0
205	CoCoALib		Normal	Example for change of coordinates with coeffs in a matrix	Anna Maria Bigatti	14 Jul 2014 14:39	Documentation	0
1025	CoCoA-5		Normal	Example of slow LEX GBasis computation		15 Nov 2017 14:57	enhancing/improving	10
1306	CoCoALib		Normal	exgcd over integers (ZZ)		08 Mar 2024 17:57	New Function	20
1227	CoCoALib		Normal	exgcd; solve Bezout equation		29 Aug 2019 14:55	New Function	0
738	CoCoALib		Normal	Extend homomorphism to polynomial ring		25 Jun 2015 17:23	New Function	10
1482	CoCoALib		Normal	Extended rationals: PlusInfinity and MinusInfinity		16 Feb 2024 18:02	New Function	10
1006	CoCoA-5		Normal	External dependencies for building		27 Oct 2021 13:13	Portability	10
906	CoCoALib		Normal	External libraries: keep copy of compatible versions?		13 Jul 2016 11:19	Portability	0
712	CoCoA-5		Normal	External Libs: missing dependencies in Makefiles	John Abbott	01 Oct 2019 14:31	External Libs	10
720	CoCoA-5		Normal	External libs: specifying I/O streams (initialization?)		22 May 2015 14:14	External Libs	0
765	CoCoALib		Normal	ExternalLib-CDD: (needed by GFan)	Anna Maria Bigatti	11 Sep 2019 13:47	Portability	10
818	CoCoALib		Normal	F5 with 3 args?	John Abbott	24 Nov 2015 10:11	Tidying	10
837	CoCoALib		Normal	factor is very slow on some simple input polynomials		06 Jan 2016 14:40	Improving	0
667	CoCoALib		Normal	factor: multivariate + finite characteristic		04 Mar 2015 20:08	New Function	0
874	CoCoALib		Normal	factor: too slow on largish multivariate poly	John Abbott	26 Feb 2019 16:29	Improving	20
1582	CoCoALib		Normal	Factorization in $K(a,b)[x,y]$		07 Mar 2024 20:23	Improving	0
809	CoCoALib		Normal	FastCmp for degree -- useful?	Anna Maria Bigatti	27 Nov 2015 16:06	Tidying	0
690	CoCoALib		Normal	Fault tolerant rational reconstruction: implement simultaneous version		23 Apr 2015 19:12	New Function	0
1454	CoCoA-5		Normal	Filenames in release CoCoAManual/html containing [obsolete]	Anna Maria Bigatti	03 Feb 2022 20:17	Manual/documentation	0
1437	CoCoALib		Normal	Filling matrix row/col from a vector		15 Feb 2024 22:46	New Function	0

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1767	CoCoALib		Normal	Finalize design for ideals in CoCoALib		08 Mar 2024 17:26	Data Structures	10
785	CoCoALib		Normal	finite fields: global register of fields already created?		15 Oct 2015 17:27	Improving	0
924	CoCoALib		Normal	FlagManager for bool/bool3 flags	Anna Maria Bigatti	16 Feb 2024 17:57	Data Structures	50
565	CoCoALib		Normal	FloatApprox for TwinFloat values?	John Abbott	19 Jul 2016 22:44	New Function	20
515	CoCoALib		Normal	Fn to "flatten" muliple polynomial extns		10 Jul 2014 14:22	New Function	0
923	CoCoALib		Normal	Fn to read symbol range (SymbolRange)		16 Sep 2016 15:04	New Function	0
1541	CoCoA-5		Normal	foreach with ref to list entry?		15 Jan 2024 19:39	CoCoA-5 function: new	0
272	CoCoALib		Normal	Forward declarations		07 Apr 2014 18:14	Tidying	0
305	CoCoALib		Normal	FreeModule: unique copy?		10 Dec 2023 20:43	Tidying	10
1219	CoCoALib		Normal	Frobby version number		08 Mar 2023 19:40	Documentation	10
578	CoCoA-5		Normal	Gaussian Elimination		15 May 2020 10:26	CoCoA-5 function: new	10
627	CoCoALib		Normal	Gaussian integer and rationals ZZi, QQi		23 Sep 2014 16:30	New Function	0
154	CoCoALib		Normal	GCD normalization (e.g. monic)		24 Nov 2016 13:56	Tidying	20
480	CoCoA-5		Normal	gcd too slow for large degree univariate poly		30 Oct 2019 22:44	Cleaning	0
1757	CoCoALib		Normal	gcd(f,f) is slow		16 Feb 2024 09:57	Improving	0
987	CoCoALib		Normal	GCD: add special case if args are monomials		28 Nov 2016 22:04	Improving	0
1359	CoCoALib		Normal	gcd: low degree but big coeffs can be slow		30 Oct 2019 22:23	Improving	0
1663	CoCoA-5		Normal	GCDList not documented		31 May 2022 09:55	Manual/documentation	0
1241	CoCoA-5		Normal	GDPR: website, mailing list		05 Feb 2022 20:34	Manual/documentation	0
1668	CoCoALib		Normal	Generalize prim		31 Jan 2024 22:03	Improving	0
229	CoCoALib		Normal	Generator for random ring elements		01 Aug 2014 08:59	New Function	0
1129	CoCoA-5		Normal	Generic Timeout for CoCoA-5?		28 Nov 2017 18:06	enhancing/improving	10
1664	CoCoALib		Normal	geobucket: documentation		08 Mar 2023 19:44	Documentation	0
1564	CoCoA-5		Normal	Geometrical theorem proving package		19 Jan 2021 09:20	CoCoA-4 function to be added	0
1470	CoCoALib		Normal	Get indexed indets from a polyring		07 Mar 2024 20:36	New Function	0
1469	CoCoA-5		Normal	Get indexed indets from a polyring		19 Jan 2021 12:39	CoCoA-5 function: new	0
1373	CoCoA-5		Normal	GFan also for Microsoft?	Anna Maria Bigatti	17 Oct 2022 13:59	Portability	10
1542	CoCoALib		Normal	gfan does not "deinitialize"		08 Mar 2023 19:53	Various	30
1441	CoCoALib		Normal	GFan: port CoCoA_5 functions into CoCoALib	Anna Maria Bigatti	16 Feb 2024 17:54	New Function	0
840	CoCoALib		Normal	GINV: alex basis		31 Mar 2016 13:05	New Function	10

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
282	CoCoALib		Normal	Global setting: to use IsProbPrime in place of IsPrime		01 Aug 2014 08:59		0
1388	CoCoALib		Normal	GlobalManager: create SignalWatcher internally?		01 Mar 2024 09:49	Safety	0
763	CoCoALib		Normal	GlobalManager: initialization compatible with initialization of external libs		21 Mar 2016 16:55	Portability	10
1013	CoCoALib		Normal	GlobalManager: name of object in examples (and tests)		25 Feb 2017 11:11	Renaming	10
780	CoCoALib		Normal	GroebnerFan/ExternalLib-GFan: improve package	Anna Maria Bigatti	21 Apr 2017 11:06	Improving	20
1069	CoCoALib		Normal	GroebnerFan: ERROR: Matrix must be invertible		17 Dec 2018 15:16	Improving	10
984	CoCoA-5		Normal	GroebnerFanIdeals: order matrices sometimes have "large" entries		22 Nov 2021 20:19	enhancing/improving	0
1393	CoCoA-5		Normal	GUI with Qt5	Ulrich von der Ohe	30 Nov 2022 22:07	GUI	90
136	CoCoA-5		Normal	GUI: Add an edit menu to the top bar (CoCoA GUI on MacOS)		02 Jul 2014 16:56	GUI	0
527	CoCoA-5		Normal	GUI: better name for the graphical interface?		27 Jul 2015 19:25	GUI	0
38	CoCoA-5		Normal	GUI: open file "with C5"		09 Apr 2014 15:00	GUI	0
919	CoCoALib		Normal	Hilbert Driven GBasis		22 May 2017 14:11		0
376	CoCoA-5		Normal	Hilbert: Redesign hp.cpkg5 and public functions in TmpHilbert.C	Anna Maria Bigatti	06 Aug 2020 12:21	Cleaning	10
227	CoCoALib		Normal	HilbertBasis from Normaliz: full-lattice or not?		31 Jul 2014 12:39	New Function	0
1433	CoCoALib		Normal	HilbertDriven Buchberger Algorithm	Anna Maria Bigatti	16 Feb 2024 18:02	New Function	0
1475	CoCoA-5		Normal	HilbertSeries: make into proper rational function		03 Feb 2022 19:54	enhancing/improving	0
1444	CoCoALib		Normal	HNF: Hermite Normal Form		16 Feb 2024 09:53	New Function	0
1737	CoCoALib		Normal	Homogenization of an ideal with ZZ^1-grading	Anna Maria Bigatti	01 Feb 2024 19:59	Improving	20
1778	CoCoALib		Normal	Homogenizer		25 Apr 2024 21:54	New Function	10
1357	ApCoCoA		Normal	How to connect GUI to cocoa5 executable?		30 Oct 2019 11:06		0
1430	CoCoA-5		Normal	HTML manual: search using keywords?		04 Nov 2021 23:17	Manual/documentation	0
106	CoCoA-5		Normal	I:f (IDEAL and RINGELEM) -- operator colon	Anna Maria Bigatti	02 Sep 2014 11:12	Incomplete function	10
1349	CoCoALib		Normal	ideal ctor where given gens are a gbasis		16 Feb 2024 09:52	Improving	10
1267	CoCoALib		Normal	Ideal equality		09 Apr 2019 17:48	Improving	10
1269	CoCoALib		Normal	Ideal Ops: sort-cuts for trivial args?		04 Apr 2019 15:07	Improving	0
1168	CoCoALib		Normal	ideal: does const ourGetPtr really need to be private?		08 Mar 2024 17:26	Data Structures	40
123	CoCoALib		Normal	IdealOfPoints with generic coeffs		09 Jul 2014 18:15	New Function	0
1750	CoCoALib		Normal	IdealOfPoints: allow duplicate points?	John Abbott	08 Mar 2024 18:23	Improving	20

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
114	CoCoALib		Normal	Ideals of polynomials		10 Jul 2014 14:26	Tidying	10
1255	CoCoALib		Normal	Ideals with trivial GBasis		08 Mar 2023 19:49	Improving	0
882	CoCoALib		Normal	Impl faster multiplication for DUP (dense univariate polys)		09 May 2016 22:10	Improving	0
1744	CoCoALib		Normal	Implement GBMill (aka Groebner Framework)	Anna Maria Bigatti	25 May 2023 14:30	Data Structures	10
589	CoCoALib		Normal	Implement gin (generic initial ideal) in cocoalib	Anna Maria Bigatti	15 Jul 2014 18:17	New Function	0
1645	CoCoALib		Normal	Implement monic0(f) for the case monic(0)?		16 Feb 2024 09:38	Improving	10
1743	CoCoALib		Normal	Implement Truncated GBases for homogeneous input	Anna Maria Bigatti	19 May 2023 15:42	New Function	0
866	CoCoALib		Normal	implicit, ImplicitHypersurface: improve output verification		22 Mar 2024 09:43	Tidying	20
865	CoCoA-5		Normal	Implicit: make easier to use with rational functions	Anna Maria Bigatti	03 Feb 2022 19:20	enhancing/improving	0
1657	CoCoALib		Normal	Improve CertifyNotPower		31 Jan 2024 22:03	Improving	0
941	CoCoA-5		Normal	Improve coverage of CoCoA-5 tests		10 Oct 2016 21:09	enhancing/improving	0
1323	CoCoALib		Normal	Improve RealRoots: compute sqfr decomp		30 Sep 2019 16:14	Improving	0
1324	CoCoALib		Normal	Improve RootBound		30 Oct 2019 21:44	Improving	10
967	CoCoALib		Normal	Improve saturate	Anna Maria Bigatti	22 Mar 2024 10:18	Improving	70
142	CoCoALib		Normal	Improve threadsafety		21 Mar 2024 20:29	Safety	50
1803	CoCoALib		Normal	Improve trivial operations with ideal whose GBasis is [1]	Anna Maria Bigatti	25 Mar 2024 19:06		0
436	CoCoALib		Normal	Improve UPoly eval at BigRat for binary rational		01 Aug 2014 08:59	New Function	0
989	CoCoA-5		Normal	init file obligatory?		01 Dec 2016 11:36	Cleaning	10
1508	CoCoA-5		Normal	Initial ring		05 May 2024 20:17	enhancing/improving	50
1342	ApCoCoA		Normal	Input tabbed windows associated to files		16 Oct 2019 15:08		0
274	CoCoA-5		Normal	InputForm for output readable as input	Anna Maria Bigatti	04 Apr 2014 16:43	CoCoA-5 function: new	10
665	CoCoALib		Normal	Integrate Janet/Pommaret basis code	John Abbott	12 Jun 2018 18:36	New Function	10
1340	ApCoCoA		Normal	Interactive window and history mechanism		16 Oct 2019 14:45		0
454	CoCoA-5		Normal	interpolate	John Abbott	04 Apr 2014 16:24	CoCoA-4 function to be added	0
1519	CoCoA-5		Normal	Interpreter fn Value::from can use std::move?		03 Feb 2022 19:54	enhancing/improving	0
875	CoCoA-5		Normal	Interpreter is too slow reading a big polynomial		20 Oct 2020 18:05	enhancing/improving	10
1292	CoCoA-5		Normal	Interpreter: fns which accept INT or RAT		03 Feb 2022 19:33	Parser/Interpreter	0
1642	CoCoALib		Normal	interreduce: make monic if over finite field?	John Abbott	16 Feb 2024 20:44	Improving	20

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1175	CoCoA-5		Normal	intersection		05 Apr 2018 09:29		0
412	CoCoA-5		Normal	intersection (all lower case)	Anna Maria Bigatti	28 Jul 2014 17:41	CoCoA-4 function to be added	20
1456	CoCoA-5		Normal	IntersectList or IntersectionList		15 Mar 2024 18:24	Renaming	0
1176	CoCoALib		Normal	interval arithmetic	John Abbott	10 Mar 2023 17:46	New Function	50
113	CoCoALib		Normal	Introduce PartialHom	John Abbott	09 Jul 2014 18:04	New Function	10
1089	CoCoALib		Normal	invalid pointer in "free"	John Abbott	20 Jul 2017 13:06	Various	10
752	CoCoALib		Normal	Investigate using Boost.build instead of make	John Abbott	28 Apr 2017 11:23	Portability	0
575	CoCoALib		Normal	Investigate using cmake for configuration	John Abbott	13 Mar 2024 21:19	Portability	10
749	CoCoA-5		Normal	IsDefined does not follow reference to undefined optional param		31 Jul 2015 12:08	Parser/Interpreter	0
885	CoCoALib		Normal	Islrred3: fast 3-way irred test (returning bool3)		30 Apr 2019 17:19	New Function	10
846	CoCoALib		Normal	Islrred: correct design?	John Abbott	26 Feb 2019 16:32	Improving	20
947	CoCoALib		Normal	IsRadical for ideal?		23 Jan 2024 22:13	New Function	10
174	CoCoALib		Normal	IsStdGraded: add for PPOrdering, PPMonoid, (Sparse)PolyRing..		01 Aug 2014 08:59	New Function	0
1197	CoCoALib		Normal	IsZeroDet: new fn	John Abbott	08 Mar 2024 17:58	New Function	40
151	CoCoALib		Normal	Iterated CanonicalHom		13 May 2015 09:58	New Function	0
1787	CoCoALib		Normal	Iterator design: compatible with C++STL? Advancing beyond end?	John Abbott	23 Apr 2024 22:26	Tidying	30
216	CoCoA-5		Normal	Janet Bases: port function into CoCoA-5		05 Nov 2021 16:12	CoCoA-5 function: new	20
1026	CoCoALib		Normal	JanetBasis gives error indet index out of range		08 Mar 2017 15:26	Maths Bugs	0
1659	CoCoA-5		Normal	Jordan Normal Form?		07 Feb 2022 17:57	CoCoA-5 function: new	0
1815	CoCoALib		Normal	JSON and UUID		02 May 2024 19:58	New Function	10
1748	CoCoALib		Normal	July 2023	John Abbott	08 Mar 2024 08:29	Various	0
1237	CoCoA-5		Normal	ker: for PolyAlgHom from QQ[x,y,z] to QQ(t)		10 Jun 2021 18:06	enhancing/improving	0
1571	CoCoALib		Normal	ker_H needs care	Anna Maria Bigatti	16 Feb 2024 17:49	Maths Bugs	10
1138	CoCoA-5		Normal	Latex: matrix	Anna Maria Bigatti	11 Dec 2017 16:45	enhancing/improving	0
661	CoCoALib		Normal	Laurent polynomials		23 Jan 2015 13:50	New Function	0
1476	CoCoA-5		Normal	Lin alg with polys		06 Aug 2020 15:03	CoCoA-5 function: new	0
937	CoCoALib		Normal	LinDepMill: Mill for linear dependencies	Anna Maria Bigatti	18 Apr 2024 16:38	New Function	10
1071	CoCoA-5		Normal	LinKerBasis is user-unfriendly		03 Feb 2022 19:54	enhancing/improving	10
1708	CoCoA-5		Normal	Linux: just 1 executable, should be 2 (with & without readline)		05 May 2024 19:15	Release	0

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879	CoCoA-5		Normal	LOGAR: make CoCoA-5 easier to use		09 May 2016 15:30	enhancing/improving	0
601	CoCoALib		Normal	LongRange: in which file should it be declared/defined?		08 Mar 2023 20:45	Tidying	10
1774	CoCoA		Normal	Look of first Redmine page linked from CoCoA web page	Anna Maria Bigatti	12 Jan 2024 13:18	Administration	90
120	CoCoALib		Normal	LT over QQ: surprisingly slow		10 Jul 2014 16:26	Various	0
925	CoCoALib		Normal	MachineInt or long for args which are indices (yet again)		16 Apr 2024 22:29	Safety	50
1666	CoCoALib		Normal	MachineInt: chase through ULL changes		16 Apr 2024 22:40	Tidying	10
934	CoCoALib		Normal	MachineInt: change semantics?		22 Apr 2024 21:32	Safety	30
828	CoCoALib		Normal	MachineInt: function for checking that value is greater than some lower limit (and below MAXLONG)	John Abbott	15 Apr 2024 10:08	New Function	20
1266	CoCoALib		Normal	Make a poly ring QQ[x,y,z] also contain a ZZ[x,y,z]		28 Mar 2019 16:42	Improving	0
1782	CoCoALib		Normal	Make CoCoALib test file for radical	Anna Maria Bigatti	01 Mar 2024 09:44	Tidying	0
1809	CoCoALib		Normal	Make ex-syz.C	Anna Maria Bigatti	28 Mar 2024 08:45	Documentation	10
1752	CoCoA-5		Normal	Make it easy to run the tests in a public/distrib version		06 Jul 2023 12:14	enhancing/improving	0
835	CoCoALib		Normal	Make Mario's new code threadsafe		09 Dec 2015 16:48	Safety	0
516	CoCoALib		Normal	Make squarefreefactor work in multiple polynomial extns		10 Jul 2014 14:21	Tidying	0
149	CoCoALib		Normal	Makefile dependencies		01 Aug 2014 08:59	Makefile	0
1795	CoCoA-5		Normal	Makefile problem: needlessly relinks CoCoAInterpreter	John Abbott	18 Mar 2024 20:51	enhancing/improving	90
655	CoCoA-5		Normal	MakeSet can be very slow		20 Jan 2015 17:12	enhancing/improving	0
1425	CoCoA-5		Normal	MakeTerm: implement in C++		03 Feb 2022 19:22	enhancing/improving	0
1548	CoCoA-5		Normal	Man page for UniversalGBasis	Anna Maria Bigatti	03 Feb 2022 20:18	Manual/documentation	0
943	CoCoA-5		Normal	Managing credits		16 May 2017 14:49	Manual/documentation	10
1746	CoCoA-5		Normal	ManExamples target: need t reset VerbosityLevel	Anna Maria Bigatti	05 May 2024 19:45	Cleaning	90
1418	CoCoA-5		Normal	Manual entry for NewPolyRing		03 Feb 2022 20:16	Manual/documentation	0
1686	CoCoA-5		Normal	Manual entry for random (see also)		09 Jun 2022 20:49	Manual/documentation	0
1751	CoCoA-5		Normal	Manual of functions vs ManExamples	Anna Maria Bigatti	03 Jul 2023 20:54		10
1077	CoCoA-5		Normal	Manual: remove old stuff about "devices"	John Abbott	14 Mar 2023 22:02	Manual/documentation	70
675	CoCoALib		Normal	Matrix determinant over multivariate poly ring		22 May 2015 13:45	Tidying	10
125	CoCoALib		Normal	Matrix equation solving; linear system solving	John Abbott	18 Mar 2024 10:00	New Function	50
1187	CoCoALib		Normal	Matrix rank is slow (over QQ)		26 Jun 2018 11:29	Improving	0

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1562	CoCoALib		Normal	matrix.H and MatrixView.H		08 Mar 2023 19:56	Tidying	0
707	CoCoALib		Normal	MatrixOrderingMod32749Impl: test and write documentation!	Anna Maria Bigatti	25 Apr 2024 21:46	Safety	50
1296	CoCoA-5		Normal	Matrixrow-functions		18 Jun 2019 15:15	enhancing/improving	10
437	CoCoALib		Normal	MemPool: order free blocks?		13 Apr 2015 23:31	Tidying	10
985	CoCoA-5		Normal	Microsoft (Windows 10, maybe other versions): more help for installation	Anna Maria Bigatti	16 Feb 2022 20:26	EmacsUI	10
1742	CoCoALib		Normal	MinGens could be faster	Anna Maria Bigatti	18 May 2023 13:44	Improving	10
1204	CoCoA-5		Normal	MinPoly for matrix: fix in cocoalib and export to cocoa5		03 Feb 2022 19:21	enhancing/improving	0
1620	CoCoALib		Normal	MinPolyQuot not documented		15 Oct 2021 14:24		0
1638	CoCoA-5		Normal	MinSubsetOfGens sometimes very slow		06 Dec 2021 20:37	enhancing/improving	0
353	CoCoALib		Normal	Missing documentation and tests for myRecvTwinFloat	John Abbott	14 Jul 2014 14:40	Documentation	0
1636	CoCoA-5		Normal	Missing/Incomplete manual entries		30 Nov 2023 17:21	Manual/documentation	10
337	CoCoALib		Normal	Module homs		31 Jul 2014 12:40	New Function	0
297	CoCoALib		Normal	Modules design: brainstorming		31 Jul 2014 14:55	New Function	30
230	CoCoA-5		Normal	More curiously slow code -- squaring a polynomial		04 Apr 2014 15:10		0
1503	CoCoA-5		Normal	More flexible ring creation syntax (after use or :=)		08 Oct 2020 14:16	enhancing/improving	0
1244	CoCoA-5		Normal	MSatLinSolve: req minor improvements		03 Feb 2022 20:14	enhancing/improving	10
1465	CoCoALib		Normal	mul(MAT,MAT,MAT)		16 Feb 2024 10:04	Tidying	10
258	CoCoALib		Normal	Multivariate lifting		01 Aug 2014 08:59		0
686	CoCoALib		Normal	myAddMul in poly rings	Anna Maria Bigatti	20 Apr 2015 13:22	Tidying	20
1796	CoCoALib		Normal	myFinalizeGBasis ("Final clean up") should be more flexible	Anna Maria Bigatti	22 Mar 2024 16:19	Improving	30
896	CoCoALib		Normal	myIsEqual, myCmp: direct comparisons between RingElem and MachineInt, BigInt and BigRat?		25 Jun 2018 15:31	Improving	10
1147	CoCoALib		Normal	mySquare and myPowerSmallExp		30 Apr 2019 17:18	Tidying	0
583	CoCoALib		Normal	New function for printing with extra information		07 Jul 2014 11:48	New Function	0
1022	CoCoALib		Normal	New "LF" function which is based on StdDeg		06 Mar 2017 19:37	New Function	20
1328	ApCoCoA		Normal	New ApCoCoA UI		04 Dec 2019 17:15		10
492	CoCoA-5		Normal	New C5 fn for adjusting the warning level		22 Jul 2014 12:38	CoCoA-5 function: new	0
1115	CoCoALib		Normal	New class: exterior algebra	John Abbott	31 Jan 2024 21:59	Data Structures	20
1808	CoCoALib		Normal	New constructor for PolyRing with elimination ordering	Anna Maria Bigatti	28 Mar 2024 07:35	New Function	10

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
126	CoCoALib		Normal	New datastructures directory		13 May 2015 09:56	Data Structures	0
1583	CoCoA-5		Normal	New fn ElapsedTimeFrom?		18 Mar 2024 21:27	enhancing/improving	0
1285	CoCoA-5		Normal	New Fn: make a homogeneous list of ringelem		23 May 2019 11:53	CoCoA-5 function: new	0
1150	CoCoALib		Normal	New fn: transform ideal with ring hom		22 Jun 2020 10:34	New Function	0
1654	CoCoALib		Normal	New function IsInSymbols		12 May 2023 08:03		0
1806	CoCoA-5		Normal	New function ModuleElems? (like RingElems(RING, STRING))		26 Mar 2024 13:44	CoCoA-5 function: new	0
1372	CoCoA-5		Normal	New function: find ?	Anna Maria Bigatti	04 Nov 2021 23:01	CoCoA-5 function: new	10
1153	CoCoA-5		Normal	New function: gin for algebraic extensions	Anna Maria Bigatti	25 Jul 2018 15:36	CoCoA-5 function: new	0
960	CoCoA-5		Normal	New function: IdealAndSeparatorsOfPoints		02 Nov 2016 18:06	CoCoA-4 function to be added	0
949	CoCoALib		Normal	New function: IdealWithIncrementalGBasis(l, f)	Anna Maria Bigatti	16 Feb 2024 18:03	New Function	0
753	CoCoA-5		Normal	New function: LeastDegPolynomial (LDP)		30 Jul 2015 17:29	CoCoA-5 function: new	0
964	CoCoA-5		Normal	New function: MakeMultiset?	Anna Maria Bigatti	25 Jul 2018 15:35	CoCoA-5 function: new	0
1254	CoCoALib		Normal	New function: MinPoly for pseudo-zero-dimensional ideals	Anna Maria Bigatti	07 Mar 2024 20:25	New Function	0
958	CoCoALib		Normal	New function: multiplicity and dim	Anna Maria Bigatti	08 Mar 2024 18:15	New Function	80
914	CoCoALib		Normal	New function: quorem for univariate polynomials?		22 Aug 2016 16:45	New Function	0
993	CoCoA-5		Normal	New function: RingQQi()? extension of QQ with imaginary unit		13 Nov 2017 15:05	CoCoA-5 function: new	0
1535	CoCoA-5		Normal	New functions: argmin, argmax		26 Nov 2020 15:52	CoCoA-5 function: new	10
633	CoCoA-5		Normal	New operations? ScalarProduct(MODULELEM,LIST), MATRIX * MODULELEM		17 Mar 2017 10:55		0
504	CoCoA-5		Normal	New operators: += -= *= /=	John Abbott	25 Oct 2019 11:55	CoCoA-5 function: new	20
1003	CoCoA-5		Normal	New syntax for creating poly rings?		27 Jan 2017 15:54	enhancing/improving	10
401	CoCoALib		Normal	NewFreeModule of dimension 0		31 Jul 2014 14:13	Various	0
1626	CoCoA-5		Normal	NewMat: should be obsolescent?	John Abbott	19 Jan 2024 18:11	CoCoA-4 function: obsolete	90
1747	CoCoA-5		Normal	NewPolyRing with indices -- better interface?		29 Jun 2023 18:09	enhancing/improving	0
841	CoCoALib		Normal	NewPolyRing: tidy up the many different versions		01 Sep 2017 11:30	Tidying	10
788	CoCoALib		Normal	No doc for DistrMPolyInIFpPP		22 Oct 2015 13:49	Documentation	0
232	CoCoALib		Normal	No test for QBGenerator		15 Apr 2015 20:15	Various	0
1198	CoCoALib		Normal	Non-standard DegRevLex (NonStdDegRevLex, WDegRevLex)		23 Sep 2019 12:44	New Function	0



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728	CoCoALib		Normal	Noncommutative algebra "of solvable type"		09 Jul 2015 08:39	New Function	10
1635	CoCoALib		Normal	NR for polys with coeffs in PID		16 Feb 2024 09:39	New Function	10
1245	CoCoA-5		Normal	Online manual entry for RingElem needs to be improved		03 Feb 2022 20:15	Manual/documentation	0
97	CoCoA-5		Normal	OpenOFile		05 May 2024 20:44	Parser/Interpreter	0
651	CoCoALib		Normal	Optimized algorithms for implicitization (slicing algorithm, elim, subalgebra..)		12 Feb 2015 10:33	New Function	10
1134	CoCoALib		Normal	Organize better the documentation for CoCoALib		09 Apr 2019 10:50	Documentation	0
626	CoCoA-5		Normal	Output Betti numbers		17 Sep 2014 13:11	CoCoA-5 function: new	0
1365	CoCoA-5		Normal	Package Edgeldeal not documented		03 Feb 2022 20:16	Manual/documentation	0
262	CoCoALib		Normal	Play with GIT		08 Mar 2023 19:54	Various	0
992	CoCoALib		Normal	Poly ring homomorphism to change ordering		13 Dec 2016 18:04	New Function	0
688	CoCoALib		Normal	PolyAlgebraHom (PolyRingHom) evaluate multivariate polynomials		22 Apr 2015 14:38	Improving	10
438	CoCoALib		Normal	Polynomial multiplication (product of RingElem)		10 Jul 2014 16:28	Various	10
1068	CoCoA-5		Normal	PolyRing constructor: NewOrdvArith computed twice		21 Mar 2024 11:55	enhancing/improving	10
1406	CoCoA-5		Normal	Poor memory management?		15 Jan 2024 19:51	bug	0
451	CoCoA-5		Normal	Port function NewSymbol/NewSymbols to CoCoA-5		09 Nov 2015 15:29	CoCoA-5 function: new	10
1278	CoCoALib		Normal	Port old "clever" code for matrix determinant over ZZ to CoCoALib		03 May 2019 11:42	New Function	0
1116	CoCoA-5		Normal	Port RowMat, ColMat, MatByRows,... to CoCoA-5	Anna Maria Bigatti	01 Oct 2019 14:40	enhancing/improving	0
368	CoCoA-5		Normal	port SmithNormalForm (CoCoA-4)package to CoCoA-5	Anna Maria Bigatti	22 Jan 2024 10:37	CoCoA-4 function to be added	10
1650	CoCoA-5		Normal	Potentially confusing prompt: waiting for semicolon		08 May 2024 16:53	Parser/Interpreter	30
812	CoCoALib		Normal	PPMonoid pseudo-ctor without explicit ordering		24 Nov 2015 18:16	New Function	0
396	CoCoALib		Normal	PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem?	John Abbott	13 May 2015 09:57	Data Structures	0
842	CoCoALib		Normal	PPMonoidSparse: comparisons are VERY SLOW		15 Feb 2016 13:57	Improving	0
803	CoCoALib		Normal	PPOrdering: use it to compute WDeg?		06 Nov 2017 14:00	New Function	10
196	CoCoALib		Normal	PPWithMask needs checking	Anna Maria Bigatti	04 Apr 2014 17:50	Documentation	0
1701	CoCoA-5		Normal	Preliminary packages		18 Mar 2024 21:05	Release	10
731	CoCoA-5		Normal	Primary Decomposition in CoCoA-5		02 Oct 2017 13:30	CoCoA-5 function: new	10
1337	CoCoALib		Normal	PrimaryDecomposition: a interesting/pathological example	Anna Maria Bigatti	08 Mar 2023 21:13	Improving	10
289	CoCoALib		Normal	PrimeField -- new fn?		01 Aug 2014 08:59	New Function	0

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1156	CoCoALib		Normal	Printing for RingElem		08 Jan 2020 23:02	Improving	0
74	CoCoALib		Normal	printing polynomials		14 Jul 2014 11:07	Various	10
222	CoCoALib		Normal	Printing polynomials - spaces between terms		14 Mar 2023 21:27	Various	30
1059	CoCoALib		Normal	Printing ring for ideals (or just for ideals 0 and 1)		05 May 2017 16:58	Improving	10
746	CoCoALib		Normal	Problem with GBasis in tower of alg extns		21 Mar 2016 14:29	Various	0
1586	CoCoA-5		Normal	Profiling with clang	Anna Maria Bigatti	02 Apr 2021 09:28		10
1705	CoCoALib		Normal	ProgressReporter: prepare for new loop?	John Abbott	25 Apr 2024 21:40	Improving	80
579	CoCoA-5		Normal	Prototype package for Linear Commutative Algebra	Elisa Palezzato	15 May 2020 10:27	CoCoA-5 function: new	10
1103	CoCoALib		Normal	Pseudo-zero-dim ideals	Anna Maria Bigatti	05 Nov 2021 16:09	Improving	30
974	CoCoALib		Normal	QIR/RealRootRefine: improve behaviour if input interval has "nasty" endpoints		01 Mar 2021 21:25	Improving	10
133	CoCoA-5		Normal	Qt GUI: Make better distinction between input and output in the output window		12 Mar 2021 09:39	GUI	0
1417	CoCoALib		Normal	RadicalZeroDim with extra parameter for GBasis timeout	Anna Maria Bigatti	16 Mar 2024 21:42	Improving	20
1691	CoCoALib		Normal	Random and threadsafe?		15 Feb 2024 22:38	Safety	0
913	CoCoALib		Normal	Read input from SymbolicData database	Anna Maria Bigatti	02 Aug 2016 10:55	New Function	0
1639	CoCoA-5		Normal	RealRoots: crashes after interrupting		07 Dec 2021 20:26	bug	0
1192	CoCoA-5		Normal	RealRoots: rational roots (but not binary rational roots)		04 Nov 2021 20:29	Cleaning	0
551	CoCoALib		Normal	Reconsider overloaded virtual mem fns		09 Jul 2014 18:00	Safety	0
620	CoCoALib		Normal	Redesign CRTMill	John Abbott	21 Mar 2016 14:30	New Function	20
871	CoCoALib		Normal	Redesign ideals		31 Oct 2023 11:24	Data Structures	0
1671	CoCoA-5		Normal	Refactor C++ impl in OnlineHelp		11 Mar 2024 07:56	enhancing/improving	0
723	CoCoA-5		Normal	Referring to indets with multiple indices from a polyring		12 Feb 2021 12:16	enhancing/improving	0
1728	CoCoA-5		Normal	Refine Poset impl & doc		21 Mar 2023 03:33	enhancing/improving	10
1688	CoCoA-5		Normal	Release CoCoA 5.4.2		14 Feb 2023 21:29	Release	0
1687	CoCoALib		Normal	Release CoCoALib 0.99850	Anna Maria Bigatti	29 Mar 2024 10:42	Various	50
1810	CoCoALib		Normal	Release CoCoALib 0.99900		29 Mar 2024 09:00	Various	0
1677	CoCoALib		Normal	release-source script: use shell globbing?		16 Feb 2024 10:01	Tidying	10
695	CoCoALib		Normal	Remove cruft from test files		08 May 2015 11:37	Tidying	0

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1422	CoCoALib		Normal	Remove flag IhaveGBasisValue?	Anna Maria Bigatti	16 Feb 2024 17:56	Data Structures	10

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