

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
4	CoCoALib		Normal	Squarefree GCD-free basis	John Abbott	27 Jan 2020 17:58	New Function	100
5	CoCoALib		Normal	Coefficient extraction	John Abbott	17 Apr 2014 09:22	New Function	100
39	CoCoALib		Normal	Squarefree factorization	John Abbott	02 Apr 2014 18:58	New Function	100
40	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - Alessio d'Ali'	John Abbott	29 Oct 2013 12:32	New Function	100
41	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - overhead	John Abbott	29 Oct 2013 12:32	New Function	100
42	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - generic case	John Abbott	29 Oct 2013 12:32	New Function	100
43	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - for polynomials	John Abbott	29 Oct 2013 12:33	New Function	100
44	CoCoALib	Feature #43: Squarefree factorization - for polynomials	Normal	Squarefree factorization - univariate polynomials	John Abbott	29 Oct 2013 12:34	New Function	100
45	CoCoALib	Feature #44: Squarefree factorization - univariate polynomials	Normal	Squarefree factorization - univariate polynomials, char 0	John Abbott	29 Oct 2013 12:34	New Function	100
46	CoCoALib	Feature #44: Squarefree factorization - univariate polynomials	Normal	Squarefree factorization - univariate polynomials, char $p > 0$	John Abbott	29 Oct 2013 12:35	New Function	100
47	CoCoALib	Feature #43: Squarefree factorization - for polynomials	Normal	Squarefree factorization - multivariate polynomials	John Abbott	02 Apr 2014 18:57	New Function	100
48	CoCoALib	Feature #47: Squarefree factorization - multivariate polynomials	Normal	Squarefree factorization - multivariate polynomials, char 0	John Abbott	05 Nov 2015 16:16	New Function	100
49	CoCoALib	Feature #47: Squarefree factorization - multivariate polynomials	Normal	Squarefree factorization - multivariate polynomials, char $p > 0$	John Abbott	29 Oct 2013 12:35	New Function	100
50	CoCoALib		Normal	Polynomial content	John Abbott	27 May 2013 18:16	New Function	100
51	CoCoALib		Normal	polynomial coefficient extraction w.r.t. variable	John Abbott	27 May 2013 18:19	New Function	100
61	CoCoALib		Normal	Conversion functions -- documentation	John Abbott	02 Apr 2014 17:43	Documentation	100
62	CoCoALib		Normal	polynomial coefficient extraction w.r.t. single variable -- dense output	John Abbott	01 Aug 2014 16:25	New Function	100

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69	CoCoALib	Feature #46: Squarefree factorization - univariate polynomials, char $p > 0$	Normal	p-th root	John Abbott	04 Jul 2012 10:48	New Function	100
71	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,....	Normal	ZeroMat & FilledMat	John Abbott	15 Apr 2014 16:13	Tidying	100
72	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,....	Low	MatByRows, MatByCols	John Abbott	31 Jul 2014 14:54	New Function	100
73	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,....	Normal	Repeated rows/cols in submat		17 Jul 2014 14:39	Safety	100
75	CoCoALib		Normal	Documentation review by Caleo		30 Nov 2012 16:26	Documentation	100
82	CoCoALib		Normal	C++11 compatibility questions	John Abbott	26 Sep 2022 20:34	Portability	100
84	CoCoALib		Normal	Names for random streams	John Abbott	23 May 2013 18:44	Renaming	100
89	CoCoALib		High	MachineInt or long as fn arg type for indices	John Abbott	31 May 2013 16:53	Tidying	100
91	CoCoALib		High	Return type & name for "indets" of a PP	John Abbott	14 Feb 2020 13:26	New Function	100
107	CoCoALib		Normal	Recognizing finite fields	John Abbott	27 Jun 2016 08:48	New Function	100
111	CoCoALib		Normal	Mod fn for computing remainder	John Abbott	13 Mar 2024 21:01	Documentation	100
119	CoCoALib		Normal	CoCoA4io	John Abbott	29 May 2013 11:36	Tidying	100
135	CoCoALib		Normal	Revise interface to SmallFpImpl & friends	John Abbott	27 May 2013 14:22	Tidying	100
138	CoCoALib		Normal	Automatic conversion from bool3 to bool?	John Abbott	15 Apr 2014 12:54	Safety	100
139	CoCoALib		Normal	Usefulness of ring casting fns (remove AsPolyRing, etc.)	John Abbott	01 Aug 2014 18:53	Tidying	100
144	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Normal	Buchberger-Moeller: generic impl	John Abbott	29 Oct 2013 14:50	New Function	100
152	CoCoALib		Low	Replace bool3 by tribool	John Abbott	29 Jan 2021 20:12	Data Structures	100
153	CoCoALib		Normal	Shorter simpler names for some bool3 values and functions		07 Apr 2014 14:28	Renaming	100
155	CoCoALib		Normal	gcd: multivariate over non-prime finite field	John Abbott	11 May 2012 19:01	Various	100
156	CoCoALib		Normal	Brand new symbol(s)		28 May 2012 16:13	New Function	100
157	CoCoALib		Normal	Separate ThreadsafeCounter from symbol.C	John Abbott	18 Jun 2012 16:11	Tidying	100
165	CoCoALib		Normal	FractionField -- only of TrueGCDDomain?	John Abbott	11 Jul 2014 12:05	Tidying	100
167	CoCoALib		Normal	Integer operations	John Abbott	31 May 2012 17:39	Tidying	100
180	CoCoALib		Normal	GlobalManager: registration of global variables	John Abbott	08 Nov 2017 17:16	Safety	100

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190	CoCoALib		High	Subtle ref count bug for poly rings (via CoeffEmbeddingHom)	John Abbott	11 Sep 2014 17:20	Safety	100
221	CoCoALib		High	Better RingElems	John Abbott	18 Feb 2013 13:04	Various	100
223	CoCoALib		Normal	Automatic mapping of RingElems	Anna Maria Bigatti	10 Jul 2014 13:38	New Function	100
224	CoCoALib		Normal	Leading form	Anna Maria Bigatti	27 Jan 2014 14:59	New Function	100
228	CoCoALib		Normal	libcocoa sometimes built without its index	John Abbott	28 Apr 2017 16:14	Portability	100
233	CoCoALib		Normal	AsINT and AsRAT -- ConvertTo<BigInt> and ConvertTo<BigRat>	John Abbott	02 Apr 2014 09:19	New Function	100
234	CoCoALib		High	Update/Improve geobucket documentation	Anna Maria Bigatti	03 Apr 2014 11:51	Documentation	100
244	CoCoALib		Normal	Rings: default ctor & assignment	John Abbott	18 Feb 2013 13:03	Various	100
253	CoCoALib		Normal	W.Brun's wish list	John Abbott	14 Mar 2023 20:09	Various	100
255	CoCoALib		Normal	Use BOOST lib default location if possible	John Abbott	06 Nov 2017 15:49	Portability	100
256	CoCoALib		Normal	Improve doc about ordering/grading for poly rings	Anna Maria Bigatti	14 Mar 2023 19:52	Documentation	100
259	CoCoALib		Normal	Squarefree(?) GCD-free basis	John Abbott	09 Jan 2020 22:22	New Function	100
261	CoCoALib		High	Review the utility of RefRingElem	John Abbott	18 Feb 2013 12:50	Safety	100
268	CoCoALib		Normal	Exponent range (in power products)	John Abbott	08 Oct 2015 12:10	Safety	100
269	CoCoALib		Normal	PPMonoids: check for exponent overflow in power function	John Abbott	28 May 2013 18:16	Safety	100
283	CoCoALib		Normal	Rational approximation	John Abbott	18 Feb 2013 20:19	New Function	100
288	CoCoALib		Normal	DynamicBitset example using LPP	Anna Maria Bigatti	17 Apr 2014 15:23	Documentation	100
300	CoCoALib		Normal	Add fault tolerant rational reconstruction to library	John Abbott	03 Jun 2013 17:31	New Function	100
303	CoCoALib		Normal	Rows and Columns of a matrix	John Abbott	09 Jan 2020 22:17	New Function	100
319	CoCoALib		Normal	BOOST -- how it could help in CoCoALib	John Abbott	15 Dec 2017 17:30	Portability	100
320	CoCoALib		Normal	PPMonoid pseudo-ctors without symbol names	John Abbott	05 Mar 2013 18:16	New Function	0
327	CoCoALib		Normal	C++ integer shift operators	John Abbott	04 Mar 2013 11:27	Portability	0
335	CoCoALib		Urgent	Equality of (sub)modules	Anna Maria Bigatti	29 Oct 2013 13:33	New Function	100
339	CoCoALib		Normal	DenseUPolyClean uses size_t	John Abbott	28 May 2013 18:57	Portability	100
349	CoCoALib		Urgent	IdealOfPoints: gens are actually a GBasis	Anna Maria Bigatti	29 Oct 2013 13:39	New Function	100
355	CoCoALib		Urgent	Colon of zero ideal fails (zero-divisors)	Anna Maria Bigatti	30 Oct 2013 10:52	Maths Bugs	100
356	CoCoALib		Normal	IsZeroDivisor	Anna Maria Bigatti	17 Apr 2014 09:23	New Function	100
377	CoCoALib		Normal	IsDivisible -- exact semantics?	John Abbott	17 Apr 2014 09:21	Maths Bugs	100
379	CoCoALib		Normal	Iter for subsets/tuples	John Abbott	13 Mar 2024 18:25	Data Structures	100
404	CoCoALib		Normal	deg(F,X) instead of MaxExponent(F,X) ?	John Abbott	20 May 2014 09:47	Renaming	100
407	CoCoALib		Normal	RingElem ctor from mpz_t (from Brun's)	John Abbott	03 Apr 2014 11:53	New Function	100
408	CoCoALib		Normal	Rename MatrixArith to MatrixOperations	John Abbott	17 Apr 2014 09:48	Renaming	100

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410	CoCoALib		Normal	New file: BigRatOps	John Abbott	03 Aug 2018 16:15	Renaming	100
411	CoCoALib		Normal	design of factorization template class	John Abbott	03 Apr 2014 11:54	Tidying	100
413	CoCoALib		High	OrdvArith: use of a single buffer is NOT THREADSAFE	John Abbott	03 Apr 2014 11:53	Safety	100
415	CoCoALib		High	Remove AsPolyRing etc?	John Abbott	17 Jul 2014 14:29	Tidying	100
416	CoCoALib		Normal	New fn: NumPartitions	John Abbott	03 Apr 2014 11:53	New Function	100
417	CoCoALib		Normal	ex-Normaliz2-overflow.in too long & too much memory	Christof Soeger	03 Apr 2014 17:30	Various	100
426	CoCoALib		Normal	ConvertTo with optional arg to give more helpful error message	John Abbott	03 Apr 2014 11:54	Tidying	100
428	CoCoALib		Normal	PPMonoidOv is not threadsafe	John Abbott	17 Apr 2014 09:49	Safety	100
429	CoCoALib		Normal	factorization: public data fields, or mem fns allowing the fields to be updated.	John Abbott	17 Apr 2014 09:50	Safety	100
457	CoCoALib		Normal	Zero to the power zero, 0^0	John Abbott	03 Apr 2014 11:50	Maths Bugs	100
479	CoCoALib		Low	make check in examples/ directory is far too slow	John Abbott	17 Apr 2014 09:51	Various	100
498	CoCoALib		Normal	IsIntegralDomain, lamIntegralDomain3	John Abbott	17 Apr 2014 09:50	Tidying	100
508	CoCoALib		Normal	Renaming: SqfreeFactor to SqFreeFactor	John Abbott	15 Apr 2014 13:26	Renaming	100
511	CoCoALib		Normal	Rename file TmpFactor to factor	John Abbott	17 Apr 2014 09:49	Renaming	100
517	CoCoALib		High	MaxSquarableInteger gives wrong ans for unsigned long	John Abbott	17 Apr 2014 09:26	Portability	100
520	CoCoALib		High	Compute inverse in quotient ring (i.e. division in algebraic extn)	Anna Maria Bigatti	01 Jul 2015 18:40	New Function	100
526	CoCoALib		Normal	Fn to test if an integer is a power of 2	John Abbott	15 Apr 2014 12:43	New Function	100
533	CoCoALib		Normal	Convert BigInt/BigRat to string	John Abbott	20 May 2014 10:33	New Function	100
535	CoCoALib		Normal	IO: move GlobalInput etc to CoCoA server!	John Abbott	15 May 2014 14:58	Tidying	100
536	CoCoALib		Normal	Make RingBase::myCharacteristic a fn rather than a proc	John Abbott	09 Mar 2023 21:58	Tidying	100
538	CoCoALib		Normal	Compilation problem in TmpMorsePaths.C	John Abbott	20 May 2014 09:52	Portability	100
540	CoCoALib		Normal	Progress reporter	John Abbott	20 May 2014 10:34	New Function	100
554	CoCoALib		Normal	CoCoALib-Normaliz interface: cannot print a cone	Christof Soeger	28 Jul 2014 21:43	New Function	100
560	CoCoALib		Normal	CoCoALib/io.H	John Abbott	15 May 2014 14:26	Tidying	100
568	CoCoALib		Normal	Valid symbol heads	John Abbott	10 Jul 2014 14:26	Various	100
571	CoCoALib		Normal	CmpAbs for RingElem	John Abbott	17 Jul 2014 14:26	New Function	100
573	CoCoALib		Normal	Use symbolic links for external libraries	John Abbott	28 Apr 2017 13:37	Portability	100
574	CoCoALib		Normal	Tidy CoCoA root directory	John Abbott	08 Nov 2017 18:31	Tidying	100
580	CoCoALib		Normal	Example for PPVector: ex-PPVector	Anna Maria Bigatti	31 Jul 2014 12:28	Documentation	100
581	CoCoALib		Normal	C++14: MachineInt	John Abbott	18 Feb 2022 15:26	Portability	100
584	CoCoALib		Normal	BaseRing for all rings	John Abbott	31 Jul 2014 16:55	New Function	100

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586	CoCoALib		High	BigInt ctor from a machine integer	John Abbott	09 Oct 2015 20:18	Safety	100
592	CoCoALib		Urgent	Review design of ConstMatrixView	John Abbott	29 Sep 2016 16:03	Tidying	100
593	CoCoALib		High	Temporary directories used during configuration	John Abbott	08 Nov 2017 18:16	Tidying	100
619	CoCoALib		Normal	Modulus (for CRTMill) ambiguous	John Abbott	25 Jun 2015 18:12	Renaming	100
625	CoCoALib		Normal	NumTheory: sieve of Eratosthenes	John Abbott	11 May 2015 16:05	New Function	100
630	CoCoALib		Normal	Add graeffe function?	John Abbott	20 Dec 2017 15:51	New Function	100
631	CoCoALib		Normal	Ambiguous: rank for matrix (in ex-matrix1.C)	John Abbott	30 Jun 2015 15:07	Portability	100
638	CoCoALib		Normal	Time limit: let user specify time limit for a computation	John Abbott	08 Nov 2017 16:33	New Function	100
641	CoCoALib		Normal	Clean test-FreeModule1	Anna Maria Bigatti	26 Jun 2015 16:58	Tidying	100
642	CoCoALib		Normal	Move code in test file into namespace CoCoA	John Abbott	25 Jun 2015 17:15	Portability	100
645	CoCoALib		Normal	Automatic mapping of RingElem: user selectable at run-time (GlobalManager?)	John Abbott	16 Feb 2024 17:41	Safety	100
648	CoCoALib		High	QBGenerator crashes	John Abbott	17 Nov 2014 11:38	Maths Bugs	100
649	CoCoALib		Normal	Make SmallFpImpl safer to use	John Abbott	02 Feb 2016 12:36	Safety	100
658	CoCoALib		Urgent	Indets actually in a poly (or vector or matrix)	John Abbott	13 Feb 2020 15:09	New Function	100
666	CoCoALib		Urgent	RatReconstructByLattice fails in some simple cases	John Abbott	25 Jun 2015 15:16	Maths Bugs	100
679	CoCoALib		High	power for PPs is too slow	John Abbott	29 Jun 2015 13:03	Safety	100
689	CoCoALib		Normal	Fault tolerant rational reconstruction: make bad factor publicly accessible	John Abbott	01 Jul 2015 18:04	Improving	100
691	CoCoALib		Normal	Matrix determinant over ZZ	John Abbott	10 Oct 2019 18:46	Improving	100
693	CoCoALib		Normal	Makefile_dependencies in src/tests/	John Abbott	15 Dec 2017 17:21	Tidying	100
694	CoCoALib		Normal	In test files: when is assert.H needed?	John Abbott	28 Apr 2017 09:32	Tidying	100
696	CoCoALib		Normal	test-OrderedRing: activate or eliminate?	John Abbott	28 Apr 2017 09:33	Safety	100
701	CoCoALib		Low	Makefile; limit dependencies on external libs		14 Oct 2022 16:51	Makefile	100
714	CoCoALib		Normal	Interrupt mechanism	John Abbott	28 Jun 2015 20:46	New Function	100
718	CoCoALib		Normal	Insert calls to CheckForInterrupt	Anna Maria Bigatti	22 Apr 2024 21:35	Improving	100
721	CoCoALib		Normal	CheckForInterrupt: string arg to specify where it was called?	John Abbott	01 Jul 2015 18:12	Improving	100
722	CoCoALib		Low	valuation slow for large inputs	John Abbott	07 Oct 2020 22:11	Improving	100
730	CoCoALib		Normal	Stats in GBMill (GReductor)	Anna Maria Bigatti	20 Nov 2017 16:12	Improving	100
736	CoCoALib		Normal	QuotientRing: is it correct to prohibit quotient by ideal(1)?	Anna Maria Bigatti	27 Jan 2020 17:43	Improving	100
739	CoCoALib		Immediate	Move code in examples into namespace CoCoA	John Abbott	01 Jul 2015 18:38	Safety	100
756	CoCoALib		Normal	frobby (v0.9.0) does not compile with g++-4.8	John Abbott	06 Nov 2017 16:48	Portability	100
759	CoCoALib		Normal	Configuration: where to keep source for test compilations?	John Abbott	08 Nov 2017 18:13	Tidying	100
773	CoCoALib		Normal	DMPZmerge: make non-recursive	John Abbott	23 Mar 2016 15:00	Improving	100

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774	CoCoALib		High	Rename file PPMonoidEvZZ	John Abbott	02 Aug 2016 15:03	Renaming	100
776	CoCoALib		Normal	FloatStr prints a NUL character	John Abbott	01 Feb 2016 14:23	Maths Bugs	100
783	CoCoALib		Normal	abs for MachineInt	John Abbott	23 Mar 2016 15:27	Various	100
786	CoCoALib		Normal	MemPool: review min and max loaf sizes	Anna Maria Bigatti	16 Sep 2021 13:38	Improving	100
789	CoCoALib		Normal	NumTheory: behaviour of InvMod when inverse does not exist	John Abbott	08 Nov 2017 17:44	Safety	100
790	CoCoALib		Normal	RingDistrMPolyInIFpPPIImpl::mySummandPool frees ZERO PTR many times	John Abbott	28 Apr 2017 09:32	Tidying	100
792	CoCoALib		Normal	configure: search for libgmp too slow	John Abbott	09 Jan 2020 22:02	Portability	100
793	CoCoALib		Normal	compilation on fedora 23: some worrying "error messages"	John Abbott	15 Dec 2017 16:59	Makefile	100
794	CoCoALib		Normal	ar gives warnings on fedora 23	John Abbott	17 Feb 2021 09:59	Portability	100
795	CoCoALib		Normal	Add new fn InvModNoCheck	John Abbott	21 Mar 2016 16:57	New Function	100
800	CoCoALib		Urgent	PPMonoidSparse: impl of sparse PPs	John Abbott	09 Mar 2023 22:15	New Function	100
804	CoCoALib		Normal	ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView	John Abbott	23 Mar 2016 15:20	Safety	100
805	CoCoALib		Urgent	New type for "constant" matrices?	John Abbott	28 Apr 2017 09:30	Data Structures	100
806	CoCoALib		Low	AssignZero for matrix	John Abbott	23 Mar 2016 15:31	Safety	100
807	CoCoALib		High	DiagMat: mySetEntry checks the entry is writable only if debugging active	John Abbott	28 Apr 2017 09:33	Safety	100
810	CoCoALib		Low	ILogBase: change name?	John Abbott	22 Mar 2016 17:31	Renaming	100
811	CoCoALib		Normal	Add new fn SimplestBinaryRatBetween	John Abbott	23 Mar 2016 15:10	New Function	100
814	CoCoALib		Normal	PPOrdering: matrix ordering, what rings are allowed.	John Abbott	28 Apr 2017 09:33	Safety	100
815	CoCoALib		Normal	GlobalManager: Imminent disaster should be a proper error	John Abbott	28 Apr 2017 09:32	Tidying	100
816	CoCoALib		Normal	Rename isqrt to FloorSqrt (following ilog renaming to FloorLog)	John Abbott	02 Feb 2016 14:13	Renaming	100
819	CoCoALib		Normal	GradingMat: does anyone need it?	Anna Maria Bigatti	24 Mar 2016 11:58	Tidying	100
820	CoCoALib		High	NewMatMinimize, NewMatCompleteOrd - a godforsaken mess!	John Abbott	24 Mar 2016 18:09	Tidying	100
821	CoCoALib		Normal	IsTermOrdering	John Abbott	24 Mar 2016 12:02	Tidying	100
822	CoCoALib		High	Should ElimMat return a ConstMatrix	Anna Maria Bigatti	28 Apr 2017 15:16	Tidying	100
824	CoCoALib		Normal	Fn names: LexMat or MatLex; StdDegRevLexMat or MatStdDegRevLex etc	John Abbott	24 Mar 2016 18:01	Renaming	100
825	CoCoALib		Normal	IsPositiveGrading -- really need 2 signatures?	John Abbott	03 Aug 2018 17:01	Tidying	100
827	CoCoALib		Immediate	NewPositiveMat also for matrices over QQ? Also NewIntegerOrdMat. (now called MakeTermOrd)		20 Jan 2017 14:26	Tidying	100
829	CoCoALib		High	PPOrderingCtor: name of mem fn which actually constructs?	John Abbott	10 Nov 2017 15:09	Tidying	100

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830	CoCoALib		Normal	Use MachineInt instead of long for params to ZeroMat, IdentityMat, MatByCols, MatByRows	John Abbott	21 Mar 2016 14:36	Tidying	100
831	CoCoALib		Normal	primary.cocoa5	Anna Maria Bigatti	22 Mar 2016 17:42	Tidying	100
834	CoCoALib		Normal	Fix test failures (after revising MatrixForOrdering)	Anna Maria Bigatti	24 Mar 2016 11:42	Tidying	100
836	CoCoALib		Normal	SmallFpImpl: export fns for a fixed convention	John Abbott	23 Mar 2016 15:10	New Function	100
847	CoCoALib		Normal	Doc for BigInt, BigIntOps, BigRat -- should there be BigRatOps?	John Abbott	03 Aug 2018 15:53	Documentation	100
853	CoCoALib		Normal	NearestInt can needlessly throw InsufficientPrecision	John Abbott	05 Oct 2016 16:33	Maths Bugs	100
856	CoCoALib		Normal	MantissaAndExponent2 for twin-float	John Abbott	28 Apr 2017 09:30	New Function	100
858	CoCoALib		Normal	floor for TwinFloat can produce ERR::SERIOUS	John Abbott	25 Jun 2016 12:08	Maths Bugs	100
859	CoCoALib		Normal	Twin-float: comparisons and equality test	John Abbott	25 Jun 2016 14:11	Tidying	100
860	CoCoALib		Normal	Check impl of RingTwinFloatImpl::myIsRational	John Abbott	28 Apr 2017 09:33	Safety	100
861	CoCoALib		Normal	Janet basis code: TmpJB files give some problems with C++11 (using CLANG/LLVM)	John Abbott	20 Sep 2021 16:17	Portability	100
864	CoCoALib		Normal	Assignment of rings (esp. derived rings such as PolyRing)	John Abbott	28 Apr 2017 09:34	Tidying	100
881	CoCoALib		Normal	ReadExpr is too slow on large polys	John Abbott	08 Nov 2017 15:59	Improving	100
889	CoCoALib		Normal	configure script: give summary of warnings at end	John Abbott	28 Apr 2017 09:35	Various	100
891	CoCoALib		High	Replace auto_ptr in preparation for C++11?	John Abbott	25 Mar 2019 15:45	Portability	100
895	CoCoALib		Normal	NumDigits: sometimes gives wrong answer	John Abbott	28 Apr 2017 09:30	Improving	100
897	CoCoALib		Normal	SimplestBigRatBetween: why is it so slow?	John Abbott	16 Sep 2021 13:47	Improving	100
905	CoCoALib		Normal	txt2tags: double quotes wrong in LaTeX	Anna Maria Bigatti	10 Oct 2019 19:06	Documentation	100
910	CoCoALib		Normal	BigRat: read from a string in "decimal" format?	John Abbott	18 Nov 2016 22:37	Improving	100
931	CoCoALib		Normal	GBasis verbose mode	Anna Maria Bigatti	29 Apr 2017 08:36	Improving	100
932	CoCoALib		Normal	CoCoALib configuration: BOOST dependency	John Abbott	27 Jan 2020 15:25	Portability	100
935	CoCoALib		High	ElimMat, ElimHomogMat: complain about zero or negative weights	Anna Maria Bigatti	13 Feb 2020 10:30	Safety	100
936	CoCoALib		Normal	ReadExpr: cannot handle exponent which is not integer literal	John Abbott	18 Nov 2016 22:22	Improving	100
938	CoCoALib		Urgent	ReadExpr: misreads 2/3^4	John Abbott	18 Nov 2016 22:23	Maths Bugs	100
950	CoCoALib		Normal	factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho	John Abbott	13 Mar 2023 22:02	Safety	100
952	CoCoALib		Normal	GCD very slow	John Abbott	30 Oct 2019 22:39	Improving	100
955	CoCoALib		Normal	RandomUnimodularMat - random unimodular matrix (of integers)	John Abbott	18 Nov 2016 22:39	New Function	100
956	CoCoALib		Normal	determinant: fails for 0x0 matrix (SEGV)	John Abbott	28 Apr 2017 09:29	Maths Bugs	100
962	CoCoALib		Normal	General verbose mode?	John Abbott	08 Nov 2017 16:29	Improving	100

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969	CoCoALib		Normal	Output to bad stream (operator<< and myOutput): just return immediately	John Abbott	11 Feb 2020 18:07	Improving	100
971	CoCoALib		Normal	CheckForInterrupt does not work in the expected way	John Abbott	28 Apr 2017 09:30	Improving	100
975	CoCoALib		High	configure: possibly ignore GMP compilation flags	John Abbott	15 Dec 2017 15:08	Portability	100
976	CoCoALib		High	configure: auxiliary scripts should be consistent about error messages	John Abbott	09 Jan 2020 22:10	Improving	100
979	CoCoALib		Normal	SmallestNonDivisor -- new fn	John Abbott	06 Nov 2017 15:12	New Function	100
982	CoCoALib		Normal	Catching interrupts in example progs?	John Abbott	09 Jan 2020 22:29	Tidying	100
983	CoCoALib		Normal	Which ostream for verbose/obsolescent log mesg?	John Abbott	28 Apr 2017 09:35	Tidying	100
999	CoCoALib		Normal	configuration: include -std=c++03 by default?	John Abbott	08 Nov 2017 17:08	Portability	100
1004	CoCoALib		High	In scripts: use portable test for absolute paths	John Abbott	28 Apr 2017 09:31	Portability	100
1005	CoCoALib		Normal	Makefile: install target for CoCoALib	John Abbott	03 Aug 2018 17:08	Portability	100
1008	CoCoALib		Normal	square function	John Abbott	28 Apr 2017 09:31	New Function	100
1015	CoCoALib		Normal	Bruns SEGV: SparsePolyIter/DMPI problem	John Abbott	28 Apr 2017 09:30	Data Structures	100
1016	CoCoALib		Normal	ReducedGBasis for RingWeyl (and other non-commutative rings)	Anna Maria Bigatti	28 Apr 2017 16:05	Improving	100
1019	CoCoALib		Normal	CPP flags in installed library	John Abbott	24 Apr 2017 17:55	Portability	100
1030	CoCoALib		Normal	IsInRadical: case of homog ideal	John Abbott	28 Nov 2017 17:56	Improving	100
1033	CoCoALib		Normal	Split poly into homog parts	John Abbott	09 Nov 2017 13:59	New Function	100
1036	CoCoALib		Normal	LogStream: stream for log output	John Abbott	22 Apr 2017 22:52	Improving	100
1039	CoCoALib		Normal	Rename iroot?	John Abbott	14 Oct 2019 15:17	Renaming	100
1042	CoCoALib		Low	LF curiously slow (breaking a poly into homog pieces)	John Abbott	06 Nov 2017 15:17	Improving	100
1048	CoCoALib		Normal	Several tests fail when threadsafe-hack is active	John Abbott	22 Apr 2017 22:43	Safety	100
1050	CoCoALib		Normal	ExternalLibs: function for getting info	John Abbott	28 Apr 2017 23:17	New Function	100
1078	CoCoALib		Normal	makefile: ungraceful when interrupted	John Abbott	08 Nov 2017 18:08	Safety	100
1082	CoCoALib		High	factor in ZZ[x] gives errors	John Abbott	08 Nov 2017 14:12	Maths Bugs	100
1083	CoCoALib		Normal	MinPolyQuot: check input (was: MinPolyQuot gives "bad characteristic" error)	Anna Maria Bigatti	15 Dec 2017 16:39	Safety	100
1085	CoCoALib		High	Fns with "OUT" args: should they give ERR::MixedRings?	John Abbott	21 Mar 2024 20:29	Safety	100
1086	CoCoALib		Normal	New design for interrupt mechanism	John Abbott	08 Nov 2017 16:31	Improving	100
1088	CoCoALib		Normal	MinPolyQuot: runs out of primes	Anna Maria Bigatti	08 Nov 2017 14:39	Improving	100
1097	CoCoALib		Normal	Rename ERR::SERIOUS to ERR::ShouldNeverGetHere	John Abbott	08 Nov 2017 17:00	Renaming	100
1099	CoCoALib		Urgent	MinPolyQuot: missing doc	Anna Maria Bigatti	03 Aug 2018 14:32	Documentation	100
1102	CoCoALib		Normal	Implement RootBound	John Abbott	06 Nov 2017 15:50	New Function	100



#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1105	CoCoALib		Normal	Primary Decompositon (zero-dim) slow cases	Anna Maria Bigatti	10 Oct 2019 19:20	Improving	100
1106	CoCoALib		Normal	Remove READLINE from CoCoALib	John Abbott	22 Apr 2024 20:24	Tidying	100
1108	CoCoALib		Normal	New fn: IsCoprime (whenever gcd makes sense)	John Abbott	06 Nov 2017 15:27	New Function	100
1110	CoCoALib		Normal	Determinant of matrix over QQ (whose entries are actually integers)	John Abbott	03 Aug 2018 15:56	Improving	100
1113	CoCoALib		Normal	gcd crashes (Floating point exception)	John Abbott	30 Oct 2019 22:16	Safety	100
1121	CoCoALib		Normal	PrevPrime and NextPrime anomalies	John Abbott	03 Aug 2018 15:48	Maths Bugs	100
1124	CoCoALib		Normal	Move examples directory into doc -- or just change makefile?	Anna Maria Bigatti	03 Aug 2018 17:04	Documentation	100
1131	CoCoALib		Normal	Sturm sequence	John Abbott	03 Aug 2018 16:05	New Function	100
1135	CoCoALib		Normal	Compiler with --debug configuration option gives errors	John Abbott	15 Dec 2017 15:16	Tidying	100
1136	CoCoALib		Low	IsInRadical: sometimes a bit slow	John Abbott	09 Dec 2019 13:34	Improving	100
1154	CoCoALib		Normal	SmallFpImpl: new ctor arg to say do-not-check-that-arg-is-prime	John Abbott	03 Aug 2018 16:14	New Function	100
1155	CoCoALib		Normal	Create a new "prime source" iterator	John Abbott	03 Aug 2018 16:11	New Function	100
1161	CoCoALib		Normal	Split NumTheory.C into several smaller files	John Abbott	12 Feb 2020 16:11	Tidying	100
1162	CoCoALib		Normal	Check semantics of NoSmallFactorSeq	John Abbott	03 Aug 2018 16:01	Improving	100
1166	CoCoALib		Normal	C++11: allows large integer literals (in NumTheory-prime.C)	John Abbott	07 Mar 2024 20:49	Portability	100
1167	CoCoALib		Normal	New class VerificationLevel	John Abbott	02 Aug 2018 17:29	New Function	100
1170	CoCoALib		Normal	SmoothFactor: slow when a factor is found	John Abbott	29 Oct 2020 21:51	Tidying	100
1180	CoCoALib		Normal	BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg)	John Abbott	15 Jan 2021 17:13	Safety	100
1181	CoCoALib		Normal	CpuTime is costly!	John Abbott	31 Jul 2018 14:25	Improving	100
1185	CoCoALib		High	factor: multivariate, wrong RemainingFactor (sign wrong)	John Abbott	31 Jul 2018 13:15	Maths Bugs	100
1196	CoCoALib		Normal	Split MatrixOps	John Abbott	29 Oct 2020 21:42	Tidying	100
1199	CoCoALib		Normal	GCD bug with high degree arg	Anna Maria Bigatti	03 Aug 2018 15:47	Maths Bugs	100
1210	CoCoALib		Normal	New Fn: make public "coefficients" (of poly wrt a given PP basis)	John Abbott	08 Aug 2022 20:41	New Function	100
1218	CoCoALib		Normal	32-bit or 64-bit preprocessor macro?	John Abbott	22 Apr 2024 20:21	Tidying	100
1221	CoCoALib		Normal	Reconsider design for accessing headers and libs of external libraries	John Abbott	09 Oct 2020 13:54	Portability	100
1223	CoCoALib		Normal	NewPolyRing default indet names	John Abbott	10 Oct 2019 19:13	Safety	100
1232	CoCoALib		Normal	IsPrime(0)	John Abbott	29 Oct 2018 18:00	Various	100
1235	CoCoALib		Normal	FreeModule: get canonical basis	Anna Maria Bigatti	14 Feb 2022 18:25	New Function	100
1248	CoCoALib		High	MinPolyQuot: guaranteed and ideal without GBasis	Anna Maria Bigatti	31 Oct 2019 15:55	Maths Bugs	100
1249	CoCoALib		Normal	principal ideal has a Gbasis	Anna Maria Bigatti	10 Oct 2019 19:12	Improving	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1250	CoCoALib		Urgent	SEGV: CoCoALib with Normaliz in multithreading	Anna Maria Bigatti	10 Oct 2019 19:12	Improving	100
1256	CoCoALib		High	RingID: different values in test-output on different platforms	John Abbott	27 Mar 2019 17:21	Portability	100
1257	CoCoALib		Normal	C++14: use nullptr	John Abbott	15 Oct 2019 14:09	Improving	100
1259	CoCoALib		Normal	ThreadsafeCounter is now obsolete?	John Abbott	14 Oct 2019 15:15	Tidying	100
1260	CoCoALib		High	Fix file permissions after using CVS	John Abbott	12 Feb 2020 16:16	Safety	100
1264	CoCoALib		Urgent	Remove unnecessary files before making CoCoALib release TGZ files	John Abbott	12 Mar 2020 22:28	Tidying	100
1265	CoCoALib		High	Unregistered TXT files in doc	John Abbott	23 Feb 2024 11:34	Documentation	100
1276	CoCoALib		Normal	Release 0.99650		19 Nov 2019 16:49	Various	100
1277	CoCoALib		Normal	Gaussian row reduction	John Abbott	12 Feb 2020 15:26	New Function	100
1279	CoCoALib		Normal	Tidy up code for matrix determinant	John Abbott	29 Oct 2020 21:48	Tidying	100
1283	CoCoALib		Normal	Printing for (prime) finite fields	John Abbott	10 Oct 2019 18:46	Improving	100
1297	CoCoALib		Normal	New fn: FixedDivisor (formerly IntrinsicContent)	John Abbott	17 Oct 2019 23:23	New Function	100
1299	CoCoALib		Normal	New fn ConstantTerm?	John Abbott	30 Apr 2020 14:57	New Function	100
1300	CoCoALib		Normal	CoprimeFactorBasis: mishandles negative args	John Abbott	01 Oct 2019 13:34	Maths Bugs	100
1301	CoCoALib		Normal	New function primorial	John Abbott	14 Oct 2019 15:10	New Function	100
1302	CoCoALib		Normal	Factorization mod p	John Abbott	10 Oct 2019 19:12	Improving	100
1308	CoCoALib		Normal	test-GFan1 fails	John Abbott	11 Feb 2020 18:28	Portability	100
1309	CoCoALib		Normal	SmoothFactor: allow limit = 1?	John Abbott	10 Oct 2019 18:45	Improving	100
1310	CoCoALib		Urgent	RealRoots: gives odd number of roots for deg 6 irred poly	John Abbott	14 Oct 2019 15:01	Maths Bugs	100
1317	CoCoALib		Normal	txt2tags: LaTeX/PDF section numbers over 99 in TOC	Anna Maria Bigatti	10 Oct 2019 18:41	Documentation	100
1319	CoCoALib		Normal	Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist	John Abbott	11 Feb 2020 12:22	Improving	100
1331	CoCoALib		Normal	adj: for matrices 7x7 and bigger	John Abbott	28 Oct 2020 23:17	Maths Bugs	100
1353	CoCoALib		Normal	configure script help	John Abbott	13 Feb 2020 11:06	Documentation	100
1360	CoCoALib		Normal	configure script: add flags for "only cocoa1ib" or "both cocoa1ib and cocoa5" (for boost)	John Abbott	07 Mar 2023 21:00	Makefile	100
1362	CoCoALib		Normal	GBasis verbose mode: some output is on cerr/clog	John Abbott	12 Feb 2020 18:14	Tidying	100
1375	CoCoALib		Normal	Radical 0-dim: varied timings	John Abbott	04 Feb 2022 21:20	Improving	100
1376	CoCoALib		Normal	GBasisTimeout: not working as expected	John Abbott	16 Sep 2021 13:51	Improving	100
1377	CoCoALib		Normal	CpuTimeLimit: limit "intervals" between full checks	John Abbott	11 Feb 2020 12:09	Improving	100
1379	CoCoALib		High	Fails to recognize zero-dim ideal	Anna Maria Bigatti	10 Jan 2020 12:17	Maths Bugs	100
1380	CoCoALib		Normal	Make IsZeroDim more robust	John Abbott	10 Jan 2020 12:29	Improving	100
1391	CoCoALib		Normal	RingElems: syntax with [ and ] ?	Anna Maria Bigatti	08 Jan 2021 13:03	Improving	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1395	CoCoALib		Normal	SHA checksum for released code	John Abbott	09 Oct 2020 14:12	Safety	100
1402	CoCoALib		Normal	gfan: installation problem: configure reports cdd.h present but cannot be compiled	John Abbott	11 Feb 2020 18:33	Portability	100
1405	CoCoALib		Normal	New fn: interreduction	John Abbott	07 Mar 2022 10:07	New Function	100
1411	CoCoALib		Normal	IsPrimary sometimes wrong	John Abbott	03 Feb 2020 15:42	Maths Bugs	100
1413	CoCoALib		Normal	configure script: MODE option obsolete?	John Abbott	11 Feb 2020 13:13	Documentation	100
1423	CoCoALib		Normal	Radical 0-dim NYI? missing case for GBasisByHomog	Anna Maria Bigatti	25 Sep 2020 16:58	Improving	100
1426	CoCoALib		High	Main Makefile: does not rebuild dependencies	John Abbott	04 Mar 2020 14:20	Makefile	100
1436	CoCoALib		Low	Flatten for a matrix	John Abbott	29 Oct 2020 21:36	New Function	100
1449	CoCoALib		Urgent	Bivariate factor bug: sometimes a factor is reducible	John Abbott	20 May 2020 13:26	Maths Bugs	100
1457	CoCoALib		Normal	Make SmoothFactor interruptible	John Abbott	26 Oct 2020 21:37	Improving	100
1458	CoCoALib		Normal	Redesign interrupt mechanism?	John Abbott	07 Mar 2022 10:07	Improving	100
1460	CoCoALib		Normal	Name of TensorMat; change to KroneckerProd?	John Abbott	29 Oct 2020 15:01	Renaming	100
1462	CoCoALib		Normal	Change CoCoA_ERROR into CoCoA_THROW_ERROR	John Abbott	14 Oct 2020 14:06	Improving	100
1463	CoCoALib		Low	SmoothFactor: use FactorMultiplicity	John Abbott	29 Oct 2020 21:44	Tidying	100
1466	CoCoALib		Normal	Ops += *= etc for Matrices?	John Abbott	08 Aug 2022 20:01	Improving	100
1467	CoCoALib		Normal	Change syntax apply(phi,M) into phi(M)?	John Abbott	18 Feb 2022 15:24	Improving	100
1473	CoCoALib		Normal	isystem not working as expected	John Abbott	14 Sep 2021 11:56	Portability	100
1481	CoCoALib		Normal	Release CoCoALib 0.99800	Anna Maria Bigatti	30 Nov 2022 18:31	Various	100
1483	CoCoALib		Normal	IsPowerOf2 for rationals	John Abbott	26 Oct 2020 21:38	New Function	100
1484	CoCoALib		Normal	ker bug (quotientinghom for R/ideal())	Anna Maria Bigatti	16 Sep 2021 13:33	Maths Bugs	100
1490	CoCoALib		Normal	New function: MinusOneToPower	John Abbott	06 Oct 2020 09:53	New Function	100
1494	CoCoALib		Normal	Normaliz 3.8.9	John Abbott	30 Oct 2020 11:08	Various	100
1499	CoCoALib		Normal	factorization: allow zero as exponent?	John Abbott	26 Oct 2020 12:26	Documentation	100
1500	CoCoALib		Normal	IsDivisible in a field?	John Abbott	23 Oct 2020 10:57	Safety	100
1511	CoCoALib		Normal	Use C++14 constexpr	John Abbott	16 Mar 2024 21:55	Improving	100
1515	CoCoALib		Normal	Indets in coeffering are ringelems in coeffering?	John Abbott	27 Oct 2020 18:01	Tidying	100
1517	CoCoALib		Low	RandomLinearForm	John Abbott	04 Feb 2022 21:31	Improving	100
1522	CoCoALib		High	SEGV: avoid long linked lists of loaves in MemPools	John Abbott	09 Mar 2023 21:50	Safety	100
1523	CoCoALib		Normal	Input fns: action when when istream is in bad state?	John Abbott	17 Feb 2021 11:01	Safety	100
1529	CoCoALib		Normal	INPUT questions	John Abbott	17 Feb 2021 11:02	Safety	100
1538	CoCoALib		Normal	RingElem from string (ReadExpr)	John Abbott	16 Sep 2021 12:54	Various	100
1547	CoCoALib		Normal	Require decimal mode for ostream?	John Abbott	04 Feb 2022 21:50	Safety	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1555	CoCoALib		Normal	Software licence	John Abbott	07 Mar 2022 10:04	Various	100
1557	CoCoALib		Normal	Reading list of rationals is too slow	John Abbott	10 Mar 2023 18:23	Improving	100
1558	CoCoALib		Normal	CpuTimeLimit: more frequent clock checks	John Abbott	20 Sep 2021 15:41	Improving	100
1563	CoCoALib		Normal	BigRat: ctor from machine int	John Abbott	29 Jan 2021 11:26	Safety	100
1565	CoCoALib		Normal	IsInRadical: gives "weird" error	John Abbott	16 Sep 2021 12:49	Maths Bugs	100
1569	CoCoALib		Normal	IsInRadical too slow (test-RadicalMembership)		01 Mar 2024 18:40	Improving	100
1570	CoCoALib		Normal	FloatStr sometimes produces NUL chars	John Abbott	16 Sep 2021 12:32	Maths Bugs	100
1579	CoCoALib		Low	Readexpr/RingElem: unhelpful error message when input is wrong	John Abbott	23 Feb 2024 12:39	Improving	100
1580	CoCoALib		Normal	New fn prim for polys	John Abbott	16 Feb 2022 20:45	New Function	100
1585	CoCoALib		High	CRASH/ABORT: GMP overflow	John Abbott	22 Sep 2021 17:45	Safety	100
1590	CoCoALib		Normal	CRASH: LinKerZZ	John Abbott	16 Sep 2021 12:27	Safety	100
1601	CoCoALib		Normal	Compilation ambiguity	John Abbott	04 Feb 2022 21:44	Portability	100
1605	CoCoALib		Normal	binomial: domain of defn?	John Abbott	14 Sep 2021 12:01	Tidying	100
1606	CoCoALib		Normal	Return type with const	John Abbott	21 Mar 2024 20:24	Improving	100
1608	CoCoALib		Normal	Domain of definition of NextPrime (and PrevPrime)	John Abbott	20 Oct 2021 22:09	Tidying	100
1612	CoCoALib		Urgent	Merge the doc file RadicalMembership.txt into ideal.txt	Anna Maria Bigatti	04 Mar 2022 17:36	Documentation	100
1617	CoCoALib		Normal	UnivariateIndetIndex: exact semantics	John Abbott	12 Nov 2021 11:44	Tidying	100
1618	CoCoALib		Normal	Tidy ex-RingElem2	John Abbott	04 Feb 2022 21:21	Documentation	100
1625	CoCoALib		Normal	Use new C++ keyword override	John Abbott	04 Feb 2022 21:48	Safety	100
1627	CoCoALib		Normal	Use keyword "delete" for deleted functions	John Abbott	04 Feb 2022 21:23	Improving	100
1633	CoCoALib		Normal	Make polynomial multiplication interruptible?	John Abbott	04 Feb 2022 21:24	Improving	100
1641	CoCoALib		High	gcd does not recognize univariate input	John Abbott	21 Mar 2024 20:18	Improving	100
1646	CoCoALib		Normal	radical: could be more clever	John Abbott	24 Jan 2022 09:07	Maths Bugs	100
1647	CoCoALib		Normal	Suppress zero from ideal generators? Detect 1 and simplify generators?	Anna Maria Bigatti	25 Mar 2024 19:02	Data Structures	100
1653	CoCoALib		Normal	Discriminant: return value	John Abbott	04 Feb 2022 21:52	Various	100
1655	CoCoALib		Normal	Remove ability to compile CoCoALib against UNINSTALLED gmp?	John Abbott	14 Feb 2022 10:00	Safety	100
1656	CoCoALib		Normal	SEGV in resultant	John Abbott	04 Feb 2022 21:33	Maths Bugs	100
1661	CoCoALib		Normal	Microsoft: cannot compile with signal handling	Nico Mexis	11 Apr 2024 10:10	Portability	100
1674	CoCoALib		Immediate	DocTeX.t2t missing several "index entries"	Anna Maria Bigatti	18 Mar 2022 10:26	Documentation	100
1676	CoCoALib		Normal	txt2tags: include in source distribution?	John Abbott	04 Nov 2022 14:31	Documentation	100
1680	CoCoALib		Normal	FloorLog2 or SizeInBase?	John Abbott	08 Aug 2022 20:16	Tidying	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1684	CoCoALib		Normal	RandomNBitPrime - new fn	John Abbott	08 Aug 2022 20:08	New Function	100
1689	CoCoALib		Normal	Automatic mapping of RHS in += etc	John Abbott	16 Feb 2024 17:35	Tidying	100
1690	CoCoALib		High	resultant gives wrong answer if an arg has deg 0	John Abbott	18 Jan 2023 18:33	Maths Bugs	100
1693	CoCoALib		Normal	SizeInBase: obsolete	John Abbott	07 Oct 2022 15:25	Tidying	100
1694	CoCoALib		Normal	New expv/exponents function?	John Abbott	09 Mar 2023 21:48	New Function	100
1710	CoCoALib		Urgent	IsSqFree, IsIrred bugs in ZZ[x] and QQ[x]	John Abbott	07 Mar 2023 20:55	Maths Bugs	100
1716	CoCoALib		Normal	Qn: factor for BigInt	John Abbott	14 Mar 2023 21:32	Improving	100
1719	CoCoALib		Normal	FactorINT has got worse	John Abbott	22 Apr 2024 20:00	Improving	100
1721	CoCoALib		Normal	Verbose messages: print level?	Anna Maria Bigatti	12 Apr 2023 14:56	Improving	100
1723	CoCoALib		Normal	New fn CoprimePart, OddPart: naming question	John Abbott	07 Mar 2023 20:27	New Function	100
1725	CoCoALib		High	resultant: gives wrong answer when should be 0	John Abbott	09 Mar 2023 20:49	Maths Bugs	100
1735	CoCoALib		Normal	PushFront/PushBack without checks?	John Abbott	08 Mar 2024 14:38	Improving	100
1749	CoCoALib		High	Configuration hiccups on Mac M1	John Abbott	21 Mar 2024 20:31	Portability	100
1753	CoCoALib		Normal	Clean up EulerTotient, InvTotient jungle in NumTheory-misc	John Abbott	29 Mar 2024 08:25	Tidying	100
1754	CoCoALib		Normal	IsSqFree poorly implemented	John Abbott	23 Feb 2024 11:39	Improving	100
1755	CoCoALib		High	CheckForInterrupt: give more info?	John Abbott	22 Dec 2023 20:56	Improving	100
1758	CoCoALib		Normal	Graeffe "sign bug"	John Abbott	22 Dec 2023 20:59	Maths Bugs	100
1761	CoCoALib		Normal	MakeTermOrdMat: improve error mesg	John Abbott	13 Mar 2024 21:16	Improving	100
1768	CoCoALib		Normal	Limit indentation in verbose mesgs?	John Abbott	22 Jan 2024 10:36	Improving	100
1769	CoCoALib		Normal	FixedDivisor is sometimes surprisingly slow	John Abbott	22 Dec 2023 20:57	Improving	100
1770	CoCoALib		Normal	Evaluate polynomial function/class	John Abbott	16 Mar 2024 21:52	New Function	100
1771	CoCoALib		Normal	Hadamard bound: field names	John Abbott	22 Dec 2023 21:31	Renaming	100
1773	CoCoALib		Normal	CyclotomicFactorIndexes: gave wrong answer	John Abbott	22 Dec 2023 21:30	Maths Bugs	100
1790	CoCoALib		High	saturate with zero ideals	John Abbott	21 Mar 2024 17:56	Maths Bugs	100