

CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1811	CoCoALib		Normal	Check include guards	John Abbott	22 Apr 2024 20:15	Tidying	90
1804	CoCoALib		Normal	Use long long (at least sometimes)?	John Abbott	26 Apr 2024 21:09	Portability	80
1790	CoCoALib		High	saturate with zero ideals	John Abbott	21 Mar 2024 17:56	Maths Bugs	100
1787	CoCoALib		Normal	Iterator design: compatible with C++STL? Advancing beyond end?	John Abbott	23 Apr 2024 22:26	Tidying	30
1773	CoCoALib		Normal	CyclotomicFactorIndexes: gave wrong answer	John Abbott	22 Dec 2023 21:30	Maths Bugs	100
1771	CoCoALib		Normal	Hadamard bound: field names	John Abbott	22 Dec 2023 21:31	Renaming	100
1770	CoCoALib		Normal	Evaluate polynomial function/class	John Abbott	16 Mar 2024 21:52	New Function	100
1769	CoCoALib		Normal	FixedDivisor is sometimes surprisingly slow	John Abbott	22 Dec 2023 20:57	Improving	100
1768	CoCoALib		Normal	Limit indentation in verbose mesgs?	John Abbott	22 Jan 2024 10:36	Improving	100
1761	CoCoALib		Normal	MakeTermOrdMat: improve error mesg	John Abbott	13 Mar 2024 21:16	Improving	100
1758	CoCoALib		Normal	Graeffe "sign bug"	John Abbott	22 Dec 2023 20:59	Maths Bugs	100
1756	CoCoALib		Normal	deg(f) is slow if f is long	John Abbott	21 Mar 2024 20:40	Improving	50
1755	CoCoALib		High	CheckForInterrupt: give more info?	John Abbott	22 Dec 2023 20:56	Improving	100
1754	CoCoALib		Normal	IsSqFree poorly implemented	John Abbott	23 Feb 2024 11:39	Improving	100
1753	CoCoALib		Normal	Clean up EulerTotient, InvTotient jungle in NumTheory-misc	John Abbott	29 Mar 2024 08:25	Tidying	100
1750	CoCoALib		Normal	IdealOfPoints: allow duplicate points?	John Abbott	08 Mar 2024 18:23	Improving	20
1749	CoCoALib		High	Configuration hiccups on Mac M1	John Abbott	21 Mar 2024 20:31	Portability	100
1748	CoCoALib		Normal	July 2023	John Abbott	08 Mar 2024 08:29	Various	0
1735	CoCoALib		Normal	PushFront/PushBack without checks?	John Abbott	08 Mar 2024 14:38	Improving	100
1733	CoCoALib		Low	FactorINT: funny order	John Abbott	22 Apr 2024 19:51	Improving	60
1726	CoCoALib		Normal	Dangling references to temporaries	John Abbott	25 Mar 2024 18:05	Portability	100
1725	CoCoALib		High	resultant: gives wrong answer when should be 0	John Abbott	09 Mar 2023 20:49	Maths Bugs	100
1723	CoCoALib		Normal	New fn CoprimePart, OddPart: naming question	John Abbott	07 Mar 2023 20:27	New Function	100
1719	CoCoALib		Normal	FactorINT has got worse	John Abbott	22 Apr 2024 20:00	Improving	100
1716	CoCoALib		Normal	Qn: factor for BigInt	John Abbott	14 Mar 2023 21:32	Improving	100
1712	CoCoALib		Normal	Windows: New configuration script	John Abbott	13 Mar 2023 21:50	Portability	100
1710	CoCoALib		Urgent	IsSqFree, IsIrred bugs in ZZ[x] and QQ[x]	John Abbott	07 Mar 2023 20:55	Maths Bugs	100
1705	CoCoALib		Normal	ProgressReporter: prepare for new loop?	John Abbott	25 Apr 2024 21:40	Improving	80
1703	CoCoALib		Normal	Threadsafty, multithreading: optional fn arg (or separate fn)	John Abbott	07 Mar 2024 20:04	Safety	80
1700	CoCoALib		Normal	boost_1_80_0	John Abbott	23 Nov 2022 17:36	Documentation	100
1694	CoCoALib		Normal	New expv/exponents function?	John Abbott	09 Mar 2023 21:48	New Function	100

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1693	CoCoALib		Normal	SizeInBase: obsolete	John Abbott	07 Oct 2022 15:25	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
1689	CoCoALib		Normal	Automatic mapping of RHS in += etc	John Abbott	16 Feb 2024 17:35	Tidying	100
1684	CoCoALib		Normal	RandomNBitPrime - new fn	John Abbott	08 Aug 2022 20:08	New Function	100
1683	CoCoALib		Immediate	IsIrred in ZZ[x,y]	John Abbott	16 Feb 2024 09:39	Improving	0
1680	CoCoALib		Normal	FloorLog2 or SizeInBase?	John Abbott	08 Aug 2022 20:16	Tidying	100
1676	CoCoALib		Normal	txt2tags: include in source distribution?	John Abbott	04 Nov 2022 14:31	Documentation	100
1656	CoCoALib		Normal	SEGV in resultant	John Abbott	04 Feb 2022 21:33	Maths Bugs	100
1655	CoCoALib		Normal	Remove ability to compile CoCoALib against UNINSTALLED gmp?	John Abbott	14 Feb 2022 10:00	Safety	100
1653	CoCoALib		Normal	Discriminant: return value	John Abbott	04 Feb 2022 21:52	Various	100
1646	CoCoALib		Normal	radical: could be more clever	John Abbott	24 Jan 2022 09:07	Maths Bugs	100
1642	CoCoALib		Normal	interreduce: make monic if over finite field?	John Abbott	16 Feb 2024 20:44	Improving	20
1641	CoCoALib		High	gcd does not recognize univariate input	John Abbott	21 Mar 2024 20:18	Improving	100
1633	CoCoALib		Normal	Make polynomial multiplication interruptible?	John Abbott	04 Feb 2022 21:24	Improving	100
1627	CoCoALib		Normal	Use keyword "delete" for deleted functions	John Abbott	04 Feb 2022 21:23	Improving	100
1625	CoCoALib		Normal	Use new C++ keyword override	John Abbott	04 Feb 2022 21:48	Safety	100
1618	CoCoALib		Normal	Tidy ex-RingElem2	John Abbott	04 Feb 2022 21:21	Documentation	100
1617	CoCoALib		Normal	UnivariateIndetIndex: exact semantics	John Abbott	12 Nov 2021 11:44	Tidying	100
1608	CoCoALib		Normal	Domain of definition of NextPrime (and PrevPrime)	John Abbott	20 Oct 2021 22:09	Tidying	100
1606	CoCoALib		Normal	Return type with const	John Abbott	21 Mar 2024 20:24	Improving	100
1605	CoCoALib		Normal	binomial: domain of defn?	John Abbott	14 Sep 2021 12:01	Tidying	100
1601	CoCoALib		Normal	Compilation ambiguity	John Abbott	04 Feb 2022 21:44	Portability	100
1590	CoCoALib		Normal	CRASH: LinKerZZ	John Abbott	16 Sep 2021 12:27	Safety	100
1585	CoCoALib		High	CRASH/ABORT: GMP overflow	John Abbott	22 Sep 2021 17:45	Safety	100
1580	CoCoALib		Normal	New fn prim for polys	John Abbott	16 Feb 2022 20:45	New Function	100
1579	CoCoALib		Low	Readexpr/RingElem: unhelpful error message when input is wrong	John Abbott	23 Feb 2024 12:39	Improving	100
1576	CoCoALib		Normal	cmp for machine integers	John Abbott	21 Jan 2024 20:23	Improving	20
1572	CoCoALib		Normal	Use noexcept	John Abbott	23 Apr 2024 21:57	Improving	70
1570	CoCoALib		Normal	FloatStr sometimes produces NUL chars	John Abbott	16 Sep 2021 12:32	Maths Bugs	100
1565	CoCoALib		Normal	IsInRadical: gives "weird" error	John Abbott	16 Sep 2021 12:49	Maths Bugs	100
1563	CoCoALib		Normal	BigRat: ctor from machine int	John Abbott	29 Jan 2021 11:26	Safety	100
1558	CoCoALib		Normal	CpuTimeLimit: more frequent clock checks	John Abbott	20 Sep 2021 15:41	Improving	100

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1557	CoCoALib		Normal	Reading list of rationals is too slow	John Abbott	10 Mar 2023 18:23	Improving	100
1555	CoCoALib		Normal	Software licence	John Abbott	07 Mar 2022 10:04	Various	100
1547	CoCoALib		Normal	Require decimal mode for ostream?	John Abbott	04 Feb 2022 21:50	Safety	100
1538	CoCoALib		Normal	RingElem from string (ReadExpr)	John Abbott	16 Sep 2021 12:54	Various	100
1529	CoCoALib		Normal	INPUT questions	John Abbott	17 Feb 2021 11:02	Safety	100
1528	CoCoALib		Normal	MacOS compilation with clang	John Abbott	23 Feb 2022 11:38	Tidying	100
1523	CoCoALib		Normal	Input fns: action when when istream is in bad state?	John Abbott	17 Feb 2021 11:01	Safety	100
1522	CoCoALib		High	SEGV: avoid long linked lists of loaves in MemPools	John Abbott	09 Mar 2023 21:50	Safety	100
1517	CoCoALib		Low	RandomLinearForm	John Abbott	04 Feb 2022 21:31	Improving	100
1515	CoCoALib		Normal	Indets in coeffring are ringelems in coeffring?	John Abbott	27 Oct 2020 18:01	Tidying	100
1511	CoCoALib		Normal	Use C++14 constexpr	John Abbott	16 Mar 2024 21:55	Improving	100
1500	CoCoALib		Normal	IsDivisible in a field?	John Abbott	23 Oct 2020 10:57	Safety	100
1499	CoCoALib		Normal	factorization: allow zero as exponent?	John Abbott	26 Oct 2020 12:26	Documentation	100
1494	CoCoALib		Normal	Normaliz 3.8.9	John Abbott	30 Oct 2020 11:08	Various	100
1490	CoCoALib		Normal	New function: MinusOneToPower	John Abbott	06 Oct 2020 09:53	New Function	100
1488	CoCoALib		High	BuiltIn Interreduce-Function	John Abbott	15 Mar 2023 08:40	New Function	100
1483	CoCoALib		Normal	IsPowerOf2 for rationals	John Abbott	26 Oct 2020 21:38	New Function	100
1473	CoCoALib		Normal	isystem not working as expected	John Abbott	14 Sep 2021 11:56	Portability	100
1467	CoCoALib		Normal	Change syntax apply(phi,M) into phi(M)?	John Abbott	18 Feb 2022 15:24	Improving	100
1466	CoCoALib		Normal	Ops += *= etc for Matrices?	John Abbott	08 Aug 2022 20:01	Improving	100
1463	CoCoALib		Low	SmoothFactor: use FactorMultiplicity	John Abbott	29 Oct 2020 21:44	Tidying	100
1462	CoCoALib		Normal	Change CoCoA_ERROR into CoCoA_THROW_ERROR	John Abbott	14 Oct 2020 14:06	Improving	100
1460	CoCoALib		Normal	Name of TensorMat; change to KroneckerProd?	John Abbott	29 Oct 2020 15:01	Renaming	100
1458	CoCoALib		Normal	Redesign interrupt mechanism?	John Abbott	07 Mar 2022 10:07	Improving	100
1457	CoCoALib		Normal	Make SmoothFactor interruptible	John Abbott	26 Oct 2020 21:37	Improving	100
1449	CoCoALib		Urgent	Bivariate factor bug: sometimes a factor is reducible	John Abbott	20 May 2020 13:26	Maths Bugs	100
1436	CoCoALib		Low	Flatten for a matrix	John Abbott	29 Oct 2020 21:36	New Function	100
1426	CoCoALib		High	Main Makefile: does not rebuild dependencies	John Abbott	04 Mar 2020 14:20	Makefile	100
1413	CoCoALib		Normal	configure script: MODE option obsolete?	John Abbott	11 Feb 2020 13:13	Documentation	100
1411	CoCoALib		Normal	IsPrimary sometimes wrong	John Abbott	03 Feb 2020 15:42	Maths Bugs	100
1405	CoCoALib		Normal	New fn: interreduction	John Abbott	07 Mar 2022 10:07	New Function	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

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1395	CoCoALib		Normal	SHA checksum for released code	John Abbott	09 Oct 2020 14:12	Safety	100
1389	CoCoALib		Normal	myZeroPtr and myOnePtr	John Abbott	13 Jan 2020 12:07	Data Structures	100
1380	CoCoALib		Normal	Make IsZeroDim more robust	John Abbott	10 Jan 2020 12:29	Improving	100
1377	CoCoALib		Normal	CpuTimeLimit: limit "intervals" between full checks	John Abbott	11 Feb 2020 12:09	Improving	100
1376	CoCoALib		Normal	GBasisTimeout: not working as expected	John Abbott	16 Sep 2021 13:51	Improving	100
1375	CoCoALib		Normal	Radical 0-dim: varied timings	John Abbott	04 Feb 2022 21:20	Improving	100
1366	CoCoALib		Normal	Should configure remove the file ERR_MESSAGES if it's empty?	John Abbott	12 Feb 2020 15:57	Tidying	100
1362	CoCoALib		Normal	GBasis verbose mode: some output is on cerr/clog	John Abbott	12 Feb 2020 18:14	Tidying	100
1360	CoCoALib		Normal	configure script: add flags for "only cocoalib" or "both cocoalib and cocoa5" (for boost)	John Abbott	07 Mar 2023 21:00	Makefile	100
1353	CoCoALib		Normal	configure script help	John Abbott	13 Feb 2020 11:06	Documentation	100
1331	CoCoALib		Normal	adj: for matrices 7x7 and bigger	John Abbott	28 Oct 2020 23:17	Maths Bugs	100
1319	CoCoALib		Normal	Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist	John Abbott	11 Feb 2020 12:22	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
1309	CoCoALib		Normal	SmoothFactor: allow limit = 1?	John Abbott	10 Oct 2019 18:45	Improving	100
1308	CoCoALib		Normal	test-GFan1 fails	John Abbott	11 Feb 2020 18:28	Portability	100
1302	CoCoALib		Normal	Factorization mod p	John Abbott	10 Oct 2019 19:12	Improving	100
1301	CoCoALib		Normal	New function primorial	John Abbott	14 Oct 2019 15:10	New Function	100
1300	CoCoALib		Normal	CoprimeFactorBasis: mishandles negative args	John Abbott	01 Oct 2019 13:34	Maths Bugs	100
1299	CoCoALib		Normal	New fn ConstantTerm?	John Abbott	30 Apr 2020 14:57	New Function	100
1297	CoCoALib		Normal	New fn: FixedDivisor (formerly IntrinsicContent)	John Abbott	17 Oct 2019 23:23	New Function	100
1295	CoCoALib		Urgent	Never use "using namespace .." in header files	John Abbott	29 Oct 2019 12:00	Portability	100
1283	CoCoALib		Normal	Printing for (prime) finite fields	John Abbott	10 Oct 2019 18:46	Improving	100
1280	CoCoALib		High	Determinant & Inverse of matrix over non integral domain	John Abbott	21 Jan 2024 19:43	Improving	40
1279	CoCoALib		Normal	Tidy up code for matrix determinant	John Abbott	29 Oct 2020 21:48	Tidying	100
1277	CoCoALib		Normal	Gaussian row reduction	John Abbott	12 Feb 2020 15:26	New Function	100
1265	CoCoALib		High	Unregistered TXT files in doc	John Abbott	23 Feb 2024 11:34	Documentation	100
1264	CoCoALib		Urgent	Remove unnecessary files before making CoCoALib release TGZ files	John Abbott	12 Mar 2020 22:28	Tidying	100
1263	CoCoALib		Normal	Tidy CoCoALib test directory	John Abbott	07 Mar 2023 20:49	Tidying	80
1260	CoCoALib		High	Fix file permissions after using CVS	John Abbott	12 Feb 2020 16:16	Safety	100
1259	CoCoALib		Normal	ThreadsafeCounter is now obsolete?	John Abbott	14 Oct 2019 15:15	Tidying	100
1257	CoCoALib		Normal	C++14: use nullptr	John Abbott	15 Oct 2019 14:09	Improving	100

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1256	CoCoALib		High	RingID: different values in test-output on different platforms	John Abbott	27 Mar 2019 17:21	Portability	100
1233	CoCoALib		High	factor SEGV -- too large characteristic	John Abbott	14 Mar 2023 19:45	Maths Bugs	60
1232	CoCoALib		Normal	IsPrime(0)	John Abbott	29 Oct 2018 18:00	Various	100
1223	CoCoALib		Normal	NewPolyRing default indet names	John Abbott	10 Oct 2019 19:13	Safety	100
1221	CoCoALib		Normal	Reconsider design for accessing headers and libs of external libraries	John Abbott	09 Oct 2020 13:54	Portability	100
1218	CoCoALib		Normal	32-bit or 64-bit preprocessor macro?	John Abbott	22 Apr 2024 20:21	Tidying	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
1197	CoCoALib		Normal	IsZeroDet: new fn	John Abbott	08 Mar 2024 17:58	New Function	40
1196	CoCoALib		Normal	Split MatrixOps	John Abbott	29 Oct 2020 21:42	Tidying	100
1185	CoCoALib		High	factor: multivariate, wrong RemainingFactor (sign wrong)	John Abbott	31 Jul 2018 13:15	Maths Bugs	100
1184	CoCoALib		Normal	should BeginIter(RingElem) be in SparsePolyIter or in SparsePolyOps-RingElem?	John Abbott	12 Feb 2020 18:17	Tidying	100
1182	CoCoALib		Normal	"mod" for BigInt	John Abbott	03 Aug 2018 16:27	Tidying	100
1181	CoCoALib		Normal	CpuTime is costly!	John Abbott	31 Jul 2018 14:25	Improving	100
1180	CoCoALib		Normal	BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg)	John Abbott	15 Jan 2021 17:13	Safety	100
1176	CoCoALib		Normal	interval arithmetic	John Abbott	10 Mar 2023 17:46	New Function	50
1170	CoCoALib		Normal	SmoothFactor: slow when a factor is found	John Abbott	29 Oct 2020 21:51	Tidying	100
1167	CoCoALib		Normal	New class VerificationLevel	John Abbott	02 Aug 2018 17:29	New Function	100
1166	CoCoALib		Normal	C++11: allows large integer literals (in NumTheory-prime.C)	John Abbott	07 Mar 2024 20:49	Portability	100
1162	CoCoALib		Normal	Check semantics of NoSmallFactorSeq	John Abbott	03 Aug 2018 16:01	Improving	100
1161	CoCoALib		Normal	Split NumTheory.C into several smaller files	John Abbott	12 Feb 2020 16:11	Tidying	100
1160	CoCoALib		Normal	Clean up revised RatReconstructByContFrac code	John Abbott	26 Feb 2019 16:33	Tidying	0
1159	CoCoALib		Normal	Add global enum "verify/DontVerify"	John Abbott	25 Jun 2018 15:06	Data Structures	100
1155	CoCoALib		Normal	Create a new "prime source" iterator	John Abbott	03 Aug 2018 16:11	New Function	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
1145	CoCoALib		Normal	File names, coding conventions: Fns, Ops, Operations? part 2	John Abbott	03 Aug 2018 16:17	Renaming	100
1143	CoCoALib		Urgent	Polynomial multiplication wrong for non integral rings	John Abbott	20 Dec 2017 15:48	Maths Bugs	100
1136	CoCoALib		Low	IsInRadical: sometimes a bit slow	John Abbott	09 Dec 2019 13:34	Improving	100
1135	CoCoALib		Normal	Compiler with --debug configuration option gives errors	John Abbott	15 Dec 2017 15:16	Tidying	100
1131	CoCoALib		Normal	Sturm sequence	John Abbott	03 Aug 2018 16:05	New Function	100
1125	CoCoALib		Normal	Separate install script for CoCoALib?	John Abbott	23 Jan 2024 21:54	Tidying	0
1121	CoCoALib		Normal	PrevPrime and NextPrime anomalies	John Abbott	03 Aug 2018 15:48	Maths Bugs	100
1115	CoCoALib		Normal	New class: exterior algebra	John Abbott	31 Jan 2024 21:59	Data Structures	20

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1113	CoCoALib		Normal	gcd crashes (Floating point exception)	John Abbott	30 Oct 2019 22:16	Safety	100
1110	CoCoALib		Normal	Determinant of matrix over QQ (whose entries are actually integers)	John Abbott	03 Aug 2018 15:56	Improving	100
1108	CoCoALib		Normal	New fn: IsCoprime (whenever gcd makes sense)	John Abbott	06 Nov 2017 15:27	New Function	100
1106	CoCoALib		Normal	Remove READLINE from CoCoALib	John Abbott	22 Apr 2024 20:24	Tidying	100
1102	CoCoALib		Normal	Implement RootBound	John Abbott	06 Nov 2017 15:50	New Function	100
1097	CoCoALib		Normal	Rename ERR::SERIOUS to ERR::ShouldNeverGetHere	John Abbott	08 Nov 2017 17:00	Renaming	100
1089	CoCoALib		Normal	invalid pointer in "free"	John Abbott	20 Jul 2017 13:06	Various	10
1086	CoCoALib		Normal	New design for interrupt mechanism	John Abbott	08 Nov 2017 16:31	Improving	100
1085	CoCoALib		High	Fns with "OUT" args: should they give ERR::MixedRings?	John Abbott	21 Mar 2024 20:29	Safety	100
1082	CoCoALib		High	factor in ZZ[x] gives errors	John Abbott	08 Nov 2017 14:12	Maths Bugs	100
1078	CoCoALib		Normal	makefile: ungraceful when interrupted	John Abbott	08 Nov 2017 18:08	Safety	100
1065	CoCoALib		Normal	Design: should we allow an ideal to change ring?	John Abbott	07 Sep 2023 08:25	Data Structures	100
1050	CoCoALib		Normal	ExternalLibs: function for getting info	John Abbott	28 Apr 2017 23:17	New Function	100
1048	CoCoALib		Normal	Several tests fail when threadsafe-hack is active	John Abbott	22 Apr 2017 22:43	Safety	100
1042	CoCoALib		Low	LF curiously slow (breaking a poly into homog pieces)	John Abbott	06 Nov 2017 15:17	Improving	100
1039	CoCoALib		Normal	Rename iroot?	John Abbott	14 Oct 2019 15:17	Renaming	100
1036	CoCoALib		Normal	LogStream: stream for log output	John Abbott	22 Apr 2017 22:52	Improving	100
1035	CoCoALib		Normal	Improvement: how to sort QuotientBasis?	John Abbott	06 Nov 2017 15:53	Improving	100
1033	CoCoALib		Normal	Split poly into homog parts	John Abbott	09 Nov 2017 13:59	New Function	100
1030	CoCoALib		Normal	IsInRadical: case of homog ideal	John Abbott	28 Nov 2017 17:56	Improving	100
1019	CoCoALib		Normal	CPP flags in installed library	John Abbott	24 Apr 2017 17:55	Portability	100
1015	CoCoALib		Normal	Bruns SEGV: SparsePolyIter/DMPI problem	John Abbott	28 Apr 2017 09:30	Data Structures	100
1008	CoCoALib		Normal	square function	John Abbott	28 Apr 2017 09:31	New Function	100
1005	CoCoALib		Normal	Makefile: install target for CoCoALib	John Abbott	03 Aug 2018 17:08	Portability	100
1004	CoCoALib		High	In scripts: use portable test for absolute paths	John Abbott	28 Apr 2017 09:31	Portability	100
999	CoCoALib		Normal	configuration: include -std=c++03 by default?	John Abbott	08 Nov 2017 17:08	Portability	100
983	CoCoALib		Normal	Which ostream for verbose/obsolescent log mesgs?	John Abbott	28 Apr 2017 09:35	Tidying	100
982	CoCoALib		Normal	Catching interrupts in example progs?	John Abbott	09 Jan 2020 22:29	Tidying	100
979	CoCoALib		Normal	SmallestNonDivisor -- new fn	John Abbott	06 Nov 2017 15:12	New Function	100
976	CoCoALib		High	configure: auxiliary scripts should be consistent about error messages	John Abbott	09 Jan 2020 22:10	Improving	100
975	CoCoALib		High	configure: possibly ignore GMP compilation flags	John Abbott	15 Dec 2017 15:08	Portability	100
971	CoCoALib		Normal	CheckForInterrupt does not work in the expected way	John Abbott	28 Apr 2017 09:30	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
962	CoCoALib		Normal	General verbose mode?	John Abbott	08 Nov 2017 16:29	Improving	100
956	CoCoALib		Normal	determinant: fails for 0x0 matrix (SEGV)	John Abbott	28 Apr 2017 09:29	Maths Bugs	100
955	CoCoALib		Normal	RandomUnimodularMat - random unimodular matrix (of integers)	John Abbott	18 Nov 2016 22:39	New Function	100
953	CoCoALib		Normal	new file for old functions: obsolescent.C	John Abbott	29 Mar 2017 18:13	Renaming	100
952	CoCoALib		Normal	GCD very slow	John Abbott	30 Oct 2019 22:39	Improving	100
951	CoCoALib		Normal	New function: IsSqFree	John Abbott	18 Nov 2016 23:09	New Function	100
950	CoCoALib		Normal	factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho	John Abbott	13 Mar 2023 22:02	Safety	100
938	CoCoALib		Urgent	ReadExpr: misreads 2/3^4	John Abbott	18 Nov 2016 22:23	Maths Bugs	100
936	CoCoALib		Normal	ReadExpr: cannot handle exponent which is not integer literal	John Abbott	18 Nov 2016 22:22	Improving	100
933	CoCoALib		Normal	Separate configure scripts for CoCoALib and CoCoA-5	John Abbott	23 Jan 2024 21:52	Portability	10
932	CoCoALib		Normal	CoCoALib configuration: BOOST dependency	John Abbott	27 Jan 2020 15:25	Portability	100
910	CoCoALib		Normal	BigRat: read from a string in "decimal" format?	John Abbott	18 Nov 2016 22:37	Improving	100
897	CoCoALib		Normal	SimplestBigRatBetween: why is it so slow?	John Abbott	16 Sep 2021 13:47	Improving	100
895	CoCoALib		Normal	NumDigits: sometimes gives wrong answer	John Abbott	28 Apr 2017 09:30	Improving	100
894	CoCoALib		Normal	strict enum types: C++11 extension	John Abbott	25 Apr 2024 21:49	Safety	30
891	CoCoALib		High	Replace auto_ptr in preparation for C++11?	John Abbott	25 Mar 2019 15:45	Portability	100
889	CoCoALib		Normal	configure script: give summary of warnings at end	John Abbott	28 Apr 2017 09:35	Various	100
881	CoCoALib		Normal	ReadExpr is too slow on large polys	John Abbott	08 Nov 2017 15:59	Improving	100
874	CoCoALib		Normal	factor: too slow on largish multivariate poly	John Abbott	26 Feb 2019 16:29	Improving	20
872	CoCoALib		Urgent	LinSolve for matrices over FFp	John Abbott	08 Mar 2024 17:36	Improving	30
867	CoCoALib		Normal	Compilation Error: C++11 and old GMP-Version	John Abbott	28 Apr 2017 09:35	Various	100
864	CoCoALib		Normal	Assignment of rings (esp. derived rings such as PolyRing)	John Abbott	28 Apr 2017 09:34	Tidying	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
860	CoCoALib		Normal	Check impl of RingTwinFloatImpl::myIsRational	John Abbott	28 Apr 2017 09:33	Safety	100
859	CoCoALib		Normal	Twin-float: comparisons and equality test	John Abbott	25 Jun 2016 14:11	Tidying	100
858	CoCoALib		Normal	floor for TwinFloat can produce ERR::SERIOUS	John Abbott	25 Jun 2016 12:08	Maths Bugs	100
856	CoCoALib		Normal	MantissaAndExponent2 for twin-float	John Abbott	28 Apr 2017 09:30	New Function	100
855	CoCoALib		High	Copyright and authorship?	John Abbott	15 Mar 2023 08:06	Portability	100
853	CoCoALib		Normal	NearestInt can needlessly throw InsufficientPrecision	John Abbott	05 Oct 2016 16:33	Maths Bugs	100
847	CoCoALib		Normal	Doc for BigInt, BigIntOps, BigRat -- should there be BigRatOps?	John Abbott	03 Aug 2018 15:53	Documentation	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
846	CoCoALib		Normal	IsIrrred: correct design?	John Abbott	26 Feb 2019 16:32	Improving	20
836	CoCoALib		Normal	SmallFpImpl: export fns for a fixed convention	John Abbott	23 Mar 2016 15:10	New Function	100
830	CoCoALib		Normal	Use MachineInt instead of long for params to ZeroMat, IdentityMat, MatByCols, MatByRows	John Abbott	21 Mar 2016 14:36	Tidying	100
829	CoCoALib		High	PPOrderingCtor: name of mem fn which actually constructs?	John Abbott	10 Nov 2017 15:09	Tidying	100
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
825	CoCoALib		Normal	IsPositiveGrading -- really need 2 signatures?	John Abbott	03 Aug 2018 17:01	Tidying	100
824	CoCoALib		Normal	Fn names: LexMat or MatLex; StdDegRevLexMat or MatStdDegRevLex etc	John Abbott	24 Mar 2016 18:01	Renaming	100
821	CoCoALib		Normal	IsTermOrdering	John Abbott	24 Mar 2016 12:02	Tidying	100
820	CoCoALib		High	NewMatMinimize, NewMatCompleteOrd - a godforsaken mess!	John Abbott	24 Mar 2016 18:09	Tidying	100
818	CoCoALib		Normal	F5 with 3 args?	John Abbott	24 Nov 2015 10:11	Tidying	10
816	CoCoALib		Normal	Rename isqrt to FloorSqrt (following ilog renaming to FloorLog)	John Abbott	02 Feb 2016 14:13	Renaming	100
815	CoCoALib		Normal	GlobalManager: Imminent disaster should be a proper error	John Abbott	28 Apr 2017 09:32	Tidying	100
814	CoCoALib		Normal	PPOrdering: matrix ordering, what rings are allowed.	John Abbott	28 Apr 2017 09:33	Safety	100
811	CoCoALib		Normal	Add new fn SimplestBinaryRatBetween	John Abbott	23 Mar 2016 15:10	New Function	100
810	CoCoALib		Low	ILogBase: change name?	John Abbott	22 Mar 2016 17:31	Renaming	100
807	CoCoALib		High	DiagMat: mySetEntry checks the entry is writable only if debugging active	John Abbott	28 Apr 2017 09:33	Safety	100
806	CoCoALib		Low	AssignZero for matrix	John Abbott	23 Mar 2016 15:31	Safety	100
805	CoCoALib		Urgent	New type for "constant" matrices?	John Abbott	28 Apr 2017 09:30	Data Structures	100
804	CoCoALib		Normal	ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView	John Abbott	23 Mar 2016 15:20	Safety	100
802	CoCoALib		Urgent	DivMask: extend interface?	John Abbott	08 Mar 2024 17:36	New Function	50
800	CoCoALib		Urgent	PPMonoidSparse: impl of sparse PPs	John Abbott	09 Mar 2023 22:15	New Function	100
799	CoCoALib		Low	vector of "indets" in each PPMonoid?	John Abbott	11 Nov 2015 13:47	Improving	20
797	CoCoALib		Normal	SmallFpImpl: make it faster	John Abbott	24 Apr 2024 23:04	Improving	20
796	CoCoALib		Normal	CoCoALib function for radical (or SqFree) of a polynomial	John Abbott	06 Nov 2017 15:31	New Function	100
795	CoCoALib		Normal	Add new fn InvModNoCheck	John Abbott	21 Mar 2016 16:57	New Function	100
794	CoCoALib		Normal	ar gives warnings on fedora 23	John Abbott	17 Feb 2021 09:59	Portability	100
793	CoCoALib		Normal	compilation on fedora 23: some worrying "error messages"	John Abbott	15 Dec 2017 16:59	Makefile	100
792	CoCoALib		Normal	configure: search for libgmp too slow	John Abbott	09 Jan 2020 22:02	Portability	100
790	CoCoALib		Normal	RingDistrMPolyInFpPPIimpl::mySummandPool frees ZERO PTR many times	John Abbott	28 Apr 2017 09:32	Tidying	100

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789	CoCoALib		Normal	NumTheory: behaviour of InvMod when inverse does not exist	John Abbott	08 Nov 2017 17:44	Safety	100
783	CoCoALib		Normal	abs for MachineInt	John Abbott	23 Mar 2016 15:27	Various	100
776	CoCoALib		Normal	FloatStr prints a NUL character	John Abbott	01 Feb 2016 14:23	Maths Bugs	100
774	CoCoALib		High	Rename file PPMonoidEvZZ	John Abbott	02 Aug 2016 15:03	Renaming	100
773	CoCoALib		Normal	DMPZmerge: make non-recursive	John Abbott	23 Mar 2016 15:00	Improving	100
759	CoCoALib		Normal	Configuration: where to keep source for test compilations?	John Abbott	08 Nov 2017 18:13	Tidying	100
756	CoCoALib		Normal	frobby (v0.9.0) does not compile with g++-4.8	John Abbott	06 Nov 2017 16:48	Portability	100
752	CoCoALib		Normal	Investigate using Boost.build instead of make	John Abbott	28 Apr 2017 11:23	Portability	0
747	CoCoALib		Normal	New function for making list of symbols (indeterminate names)	John Abbott	01 Feb 2016 14:21	Improving	100
739	CoCoALib		Immediate	Move code in examples into namespace CoCoA	John Abbott	01 Jul 2015 18:38	Safety	100
722	CoCoALib		Low	valuation slow for large inputs	John Abbott	07 Oct 2020 22:11	Improving	100
721	CoCoALib		Normal	CheckForInterrupt: string arg to specify where it was called?	John Abbott	01 Jul 2015 18:12	Improving	100
715	CoCoALib		Normal	RandomSubsetIndices, RandomTupleIndices?	John Abbott	30 Jul 2015 17:39	New Function	100
714	CoCoALib		Normal	Interrupt mechanism	John Abbott	28 Jun 2015 20:46	New Function	100
696	CoCoALib		Normal	test-OrderedRing: activate or eliminate?	John Abbott	28 Apr 2017 09:33	Safety	100
694	CoCoALib		Normal	In test files: when is assert.H needed?	John Abbott	28 Apr 2017 09:32	Tidying	100
693	CoCoALib		Normal	Makefile_dependencies in src/tests/	John Abbott	15 Dec 2017 17:21	Tidying	100
691	CoCoALib		Normal	Matrix determinant over ZZ	John Abbott	10 Oct 2019 18:46	Improving	100
689	CoCoALib		Normal	Fault tolerant rational reconstruction: make bad factor publicly accessible	John Abbott	01 Jul 2015 18:04	Improving	100
680	CoCoALib		Normal	DistrMPolyClean does not use MemPool for summands?	John Abbott	07 Mar 2023 20:49	Tidying	70
679	CoCoALib		High	power for PPs is too slow	John Abbott	29 Jun 2015 13:03	Safety	100
666	CoCoALib		Urgent	RatReconstructByLattice fails in some simple cases	John Abbott	25 Jun 2015 15:16	Maths Bugs	100
665	CoCoALib		Normal	Integrate Janet/Pommaret basis code	John Abbott	12 Jun 2018 18:36	New Function	10
664	CoCoALib		Urgent	Impl small non-prime finite fields (using logs)	John Abbott	14 Mar 2023 19:49	New Function	80
658	CoCoALib		Urgent	Indets actually in a poly (or vector or matrix)	John Abbott	13 Feb 2020 15:09	New Function	100
649	CoCoALib		Normal	Make SmallFpImpl safer to use	John Abbott	02 Feb 2016 12:36	Safety	100
648	CoCoALib		High	QBGenerator crashes	John Abbott	17 Nov 2014 11:38	Maths Bugs	100
645	CoCoALib		Normal	Automatic mapping of RingElem: user selectable at run-time (GlobalManager?)	John Abbott	16 Feb 2024 17:41	Safety	100
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
642	CoCoALib		Normal	Move code in test file into namespace CoCoA	John Abbott	25 Jun 2015 17:15	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

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
631	CoCoALib		Normal	Ambiguous: rank for matrix (in ex-matrix1.C)	John Abbott	30 Jun 2015 15:07	Portability	100
630	CoCoALib		Normal	Add graeffe function?	John Abbott	20 Dec 2017 15:51	New Function	100
625	CoCoALib		Normal	NumTheory: sieve of Eratosthenes	John Abbott	11 May 2015 16:05	New Function	100
620	CoCoALib		Normal	Redesign CRTMill	John Abbott	21 Mar 2016 14:30	New Function	20
619	CoCoALib		Normal	Modulus (for CRTMill) ambiguous	John Abbott	25 Jun 2015 18:12	Renaming	100
613	CoCoALib		Normal	Which ubuntu / debian packages are needed to compile CoCoA	John Abbott	30 Nov 2022 22:02	Portability	100
602	CoCoALib		Normal	OrdMat: should it be a reference to a MatrixView in all PPOrderings?	John Abbott	23 Mar 2016 15:24	New Function	100
593	CoCoALib		High	Temporary directories used during configuration	John Abbott	08 Nov 2017 18:16	Tidying	100
592	CoCoALib		Urgent	Review design of ConstMatrixView	John Abbott	29 Sep 2016 16:03	Tidying	100
587	CoCoALib		Normal	port to CoCoALib: Homomorphism pkg (ker, IsInjective, IsSurjective..)	John Abbott	03 Aug 2018 18:11	New Function	100
586	CoCoALib		High	BigInt ctor from a machine integer	John Abbott	09 Oct 2015 20:18	Safety	100
585	CoCoALib		Normal	(Hilbert-) quasi-polynomials	John Abbott	29 Jul 2014 11:18	New Function	100
584	CoCoALib		Normal	BaseRing for all rings	John Abbott	31 Jul 2014 16:55	New Function	100
581	CoCoALib		Normal	C++14: MachineInt	John Abbott	18 Feb 2022 15:26	Portability	100
575	CoCoALib		Normal	Investigate using cmake for configuration	John Abbott	13 Mar 2024 21:19	Portability	10
574	CoCoALib		Normal	Tidy CoCoA root directory	John Abbott	08 Nov 2017 18:31	Tidying	100
573	CoCoALib		Normal	Use symbolic links for external libraries	John Abbott	28 Apr 2017 13:37	Portability	100
571	CoCoALib		Normal	CmpAbs for RingElem	John Abbott	17 Jul 2014 14:26	New Function	100
568	CoCoALib		Normal	Valid symbol heads	John Abbott	10 Jul 2014 14:26	Various	100
565	CoCoALib		Normal	FloatApprox for TwinFloat values?	John Abbott	19 Jul 2016 22:44	New Function	20
560	CoCoALib		Normal	CoCoALib/io.H	John Abbott	15 May 2014 14:26	Tidying	100
540	CoCoALib		Normal	Progress reporter	John Abbott	20 May 2014 10:34	New Function	100
538	CoCoALib		Normal	Compilation problem in TmpMorsePaths.C	John Abbott	20 May 2014 09:52	Portability	100
536	CoCoALib		Normal	Make RingBase::myCharacteristic a fn rather than a proc	John Abbott	09 Mar 2023 21:58	Tidying	100
535	CoCoALib		Normal	IO: move GlobalInput etc to CoCoA server!	John Abbott	15 May 2014 14:58	Tidying	100
533	CoCoALib		Normal	Convert BigInt/BigRat to string	John Abbott	20 May 2014 10:33	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
517	CoCoALib		High	MaxSquarableInteger gives wrong ans for unsigned long	John Abbott	17 Apr 2014 09:26	Portability	100
511	CoCoALib		Normal	Rename file TmpFactor to factor	John Abbott	17 Apr 2014 09:49	Renaming	100
508	CoCoALib		Normal	Renaming: SqfreeFactor to SqFreeFactor	John Abbott	15 Apr 2014 13:26	Renaming	100
498	CoCoALib		Normal	IsIntegralDomain, lamIntegralDomain3	John Abbott	17 Apr 2014 09:50	Tidying	100
479	CoCoALib		Low	make check in examples/ directory is far too slow	John Abbott	17 Apr 2014 09:51	Various	100

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457	CoCoALib		Normal	Zero to the power zero, 0^0	John Abbott	03 Apr 2014 11:50	Maths Bugs	100
440	CoCoALib		High	Port RealRoots to C++	John Abbott	19 Oct 2016 10:26	New Function	0
431	CoCoALib		Normal	NewPolyRing_DMPI has no constructor with a predefined PPM	John Abbott	17 Apr 2014 18:39	New Function	100
430	CoCoALib		Normal	Use -fopenmp flag when compiling CoCoALib with libnormaliz	John Abbott	17 Apr 2014 09:54	Portability	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
428	CoCoALib		Normal	PPMonoidOv is not threadsafe	John Abbott	17 Apr 2014 09:49	Safety	100
426	CoCoALib		Normal	ConvertTo with optional arg to give more helpful error message	John Abbott	03 Apr 2014 11:54	Tidying	100
416	CoCoALib		Normal	New fn: NumPartitions	John Abbott	03 Apr 2014 11:53	New Function	100
415	CoCoALib		High	Remove AsPolyRing etc?	John Abbott	17 Jul 2014 14:29	Tidying	100
413	CoCoALib		High	OrdvArith: use of a single buffer is NOT THREADSAFE	John Abbott	03 Apr 2014 11:53	Safety	100
411	CoCoALib		Normal	design of factorization template class	John Abbott	03 Apr 2014 11:54	Tidying	100
410	CoCoALib		Normal	New file: BigRatOps	John Abbott	03 Aug 2018 16:15	Renaming	100
408	CoCoALib		Normal	Rename MatrixArith to MatrixOperations	John Abbott	17 Apr 2014 09:48	Renaming	100
407	CoCoALib		Normal	RingElem ctor from mpz_t (from Bruns)	John Abbott	03 Apr 2014 11:53	New Function	100
404	CoCoALib		Normal	deg(F,X) instead of MaxExponent(F,X) ?	John Abbott	20 May 2014 09:47	Renaming	100
396	CoCoALib		Normal	PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem?	John Abbott	13 May 2015 09:57	Data Structures	0
390	CoCoALib		Normal	Store unique copy of QQ[t_1..t_n] (RingQQt) in GlobalManager	John Abbott	29 Oct 2013 14:30	New Function	90
385	CoCoALib		Urgent	Design new errors using inheritance	John Abbott	09 Feb 2024 10:25	Tidying	40
383	CoCoALib		Normal	Resolution/morse: integrate Mario Albert's code into CoCoALib	John Abbott	31 Jul 2014 14:57	New Function	60
379	CoCoALib		Normal	Iter for subsets/tuples	John Abbott	13 Mar 2024 18:25	Data Structures	100
377	CoCoALib		Normal	IsDivisible -- exact semantics?	John Abbott	17 Apr 2014 09:21	Maths Bugs	100
374	CoCoALib		Immediate	Porting "IdealOfProjectivePoints"	John Abbott	08 Feb 2019 20:56	New Function	100
361	CoCoALib		Normal	implement IsPrime3, IsMaximal3	John Abbott	25 Nov 2017 10:42	New Function	100
354	CoCoALib		Normal	New function BinRepr (was BinExp, also known as Macaulay representation)	John Abbott	29 May 2013 16:41	New Function	100
353	CoCoALib		Normal	Missing documentation and tests for myRecvTwinFloat	John Abbott	14 Jul 2014 14:40	Documentation	0
350	CoCoALib		Immediate	problem with "matrix" argument in functions	John Abbott	11 Sep 2014 16:41	Safety	100
342	CoCoALib		Normal	Remove denominators: QQ[x] -> ZZ[x] (and PushBack(coeff, PP))	John Abbott	17 Apr 2014 09:23	New Function	100
340	CoCoALib		Normal	"configure" does not set BOOST if there are multiple copies in "standard" location	John Abbott	28 May 2013 18:41	Makefile	100
339	CoCoALib		Normal	DenseUPolyClean uses size_t	John Abbott	28 May 2013 18:57	Portability	100
327	CoCoALib		Normal	C++ integer shift operators	John Abbott	04 Mar 2013 11:27	Portability	0

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320	CoCoALib		Normal	PPMonoid pseudo-ctors without symbol names	John Abbott	05 Mar 2013 18:16	New Function	0
319	CoCoALib		Normal	BOOST -- how it could help in CoCoALib	John Abbott	15 Dec 2017 17:30	Portability	100
311	CoCoALib		Immediate	XelMat, StdDegRevLexMat, ... should be MatrixView	John Abbott	20 Jan 2017 15:16	New Function	100
303	CoCoALib		Normal	Rows and Columns of a matrix	John Abbott	09 Jan 2020 22:17	New Function	100
300	CoCoALib		Normal	Add fault tolerant rational reconstruction to library	John Abbott	03 Jun 2013 17:31	New Function	100
291	CoCoALib		Normal	NewZZmod and NewRingFp: improve manual, clarify implementation	John Abbott	03 Apr 2014 11:54	Tidying	100
285	CoCoALib		Normal	Notes for adding/removing files from documentation	John Abbott	17 Apr 2014 09:22	Documentation	100
283	CoCoALib		Normal	Rational approximation	John Abbott	18 Feb 2013 20:19	New Function	100
278	CoCoALib		Normal	add CoeffVecWRT to cocoalib	John Abbott	29 Oct 2013 14:50	New Function	100
269	CoCoALib		Normal	PPMonoids: check for exponent overflow in power function	John Abbott	28 May 2013 18:16	Safety	100
268	CoCoALib		Normal	Exponent range (in power products)	John Abbott	08 Oct 2015 12:10	Safety	100
261	CoCoALib		High	Review the utility of RefRingElem	John Abbott	18 Feb 2013 12:50	Safety	100
259	CoCoALib		Normal	Squarefree(?) GCD-free basis	John Abbott	09 Jan 2020 22:22	New Function	100
255	CoCoALib		Normal	Use BOOST lib default location if possible	John Abbott	06 Nov 2017 15:49	Portability	100
254	CoCoALib		Normal	How to return a Hilbert Series in CoCoALib	John Abbott	17 Apr 2014 15:19	New Function	100
253	CoCoALib		Normal	W.Bruns's wish list	John Abbott	14 Mar 2023 20:09	Various	100
252	CoCoALib		Normal	Documentation for tmp.H (utils on vectors and other containers)	John Abbott	31 Jul 2014 16:53	Documentation	100
244	CoCoALib		Normal	Rings: default ctor & assignment	John Abbott	18 Feb 2013 13:03	Various	100
233	CoCoALib		Normal	AsINT and AsRAT -- ConvertTo<BigInt> and ConvertTo<BigRat>	John Abbott	02 Apr 2014 09:19	New Function	100
228	CoCoALib		Normal	libcocoa sometimes built without its index	John Abbott	28 Apr 2017 16:14	Portability	100
221	CoCoALib		High	Better RingElems	John Abbott	18 Feb 2013 13:04	Various	100
211	CoCoALib		Normal	NBM: add SparsePolyRing as argument for ordering	John Abbott	18 Feb 2013 16:48	New Function	100
210	CoCoALib		Normal	Normaliz: "double" cone for speed and safety	John Abbott	18 Feb 2013 16:25	New Function	100
202	CoCoALib		Normal	MatrixView/function for viewing a single row or column (RowMat, ColMat)	John Abbott	20 Mar 2024 14:09	Data Structures	100
199	CoCoALib		Normal	CFApprox: division by zero	John Abbott	29 Jun 2012 17:23	Maths Bugs	100
195	CoCoALib		High	OrdvArith documentation needs rewriting	John Abbott	03 Apr 2014 11:51	Documentation	100
190	CoCoALib		High	Subtle ref count bug for poly rings (via CoeffEmbeddingHom)	John Abbott	11 Sep 2014 17:20	Safety	100
180	CoCoALib		Normal	GlobalManager: registration of global variables	John Abbott	08 Nov 2017 17:16	Safety	100
167	CoCoALib		Normal	Integer operations	John Abbott	31 May 2012 17:39	Tidying	100
165	CoCoALib		Normal	FractionField -- only of TrueGCDDomain?	John Abbott	11 Jul 2014 12:05	Tidying	100
157	CoCoALib		Normal	Separate ThreadsafeCounter from symbol.C	John Abbott	18 Jun 2012 16:11	Tidying	100
155	CoCoALib		Normal	gcd: multivariate over non-prime finite field	John Abbott	11 May 2012 19:01	Various	100

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152	CoCoALib		Low	Replace bool3 by tribool	John Abbott	29 Jan 2021 20:12	Data Structures	100
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
145	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Urgent	Buchberger-Moeller: fast modular impl	John Abbott	10 Jul 2014 14:17	New Function	0
144	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Normal	Buchberger-Moeller: generic impl	John Abbott	29 Oct 2013 14:50	New Function	100
143	CoCoALib		Urgent	Buchberger-Moeller (parent task)	John Abbott	10 Jul 2014 14:16	New Function	38
140	CoCoALib		Normal	Doc & example for convert	John Abbott	29 May 2013 16:48	Documentation	100
139	CoCoALib		Normal	Usefulness of ring casting fns (remove AsPolyRing, etc.)	John Abbott	01 Aug 2014 18:53	Tidying	100
138	CoCoALib		Normal	Automatic conversion from bool3 to bool?	John Abbott	15 Apr 2014 12:54	Safety	100
135	CoCoALib		Normal	Revise interface to SmallFpImpl & friends	John Abbott	27 May 2013 14:22	Tidying	100
127	CoCoALib		Normal	Convert DUPFF code to C++	John Abbott	28 Sep 2022 15:04	New Function	50
125	CoCoALib		Normal	Matrix equation solving; linear system solving	John Abbott	18 Mar 2024 10:00	New Function	50
124	CoCoALib		Normal	change long args in matrices into MachineInt (?)	John Abbott	30 May 2013 15:55	Safety	100
122	CoCoALib		Normal	Porting "LinKer"	John Abbott	15 Jan 2021 21:10	New Function	100
121	CoCoALib		Urgent	Porting "IdealOfPoints"	John Abbott	29 May 2013 16:58	New Function	100
119	CoCoALib		Normal	CoCoA4io	John Abbott	29 May 2013 11:36	Tidying	100
113	CoCoALib		Normal	Introduce PartialHom	John Abbott	09 Jul 2014 18:04	New Function	10
111	CoCoALib		Normal	Mod fn for computing remainder	John Abbott	13 Mar 2024 21:01	Documentation	100
107	CoCoALib		Normal	Recognizing finite fields	John Abbott	27 Jun 2016 08:48	New Function	100
91	CoCoALib		High	Return type & name for "indets" of a PP	John Abbott	14 Feb 2020 13:26	New Function	100
89	CoCoALib		High	MachineInt or long as fn arg type for indices	John Abbott	31 May 2013 16:53	Tidying	100
84	CoCoALib		Normal	Names for random streams	John Abbott	23 May 2013 18:44	Renaming	100
82	CoCoALib		Normal	C++11 compatibility questions	John Abbott	26 Sep 2022 20:34	Portability	100
81	CoCoALib		Normal	DMPI vs DMP2 is slower than expected	John Abbott	01 Feb 2012 11:35	Various	100
72	CoCoALib	Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,....	Low	MatByRows, MatByCols	John Abbott	31 Jul 2014 14:54	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

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
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
67	CoCoALib		Normal	Rename MatrixViews	John Abbott	17 Apr 2014 18:38	Renaming	100
66	CoCoALib		Normal	BigInt - NumTheory	John Abbott	15 Apr 2014 12:39	Documentation	100
64	CoCoALib		Normal	submat takes only vector<long>	John Abbott	08 Mar 2024 17:17	Improving	100
62	CoCoALib		Normal	polynomial coefficient extraction w.r.t. single variable -- dense output	John Abbott	01 Aug 2014 16:25	New Function	100
61	CoCoALib		Normal	Conversion functions -- documentation	John Abbott	02 Apr 2014 17:43	Documentation	100
51	CoCoALib		Normal	polynomial coefficient extraction w.r.t. variable	John Abbott	27 May 2013 18:19	New Function	100
50	CoCoALib		Normal	Polynomial content	John Abbott	27 May 2013 18:16	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
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
47	CoCoALib	Feature #43: Squarefree factorization - for polynomials	Normal	Squarefree factorization - multivariate polynomials	John Abbott	02 Apr 2014 18:57	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
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
44	CoCoALib	Feature #43: Squarefree factorization - for polynomials	Normal	Squarefree factorization - univariate polynomials	John Abbott	29 Oct 2013 12:34	New Function	100
43	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - for polynomials	John Abbott	29 Oct 2013 12:33	New Function	100
42	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - generic case	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
40	CoCoALib	Feature #39: Squarefree factorization	Normal	Squarefree factorization - Alessio d'Ali'	John Abbott	29 Oct 2013 12:32	New Function	100
39	CoCoALib		Normal	Squarefree factorization	John Abbott	02 Apr 2014 18:58	New Function	100

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
37	CoCoALib		High	matrix constructors	John Abbott	15 Dec 2017 15:18	Data Structures	100
22	CoCoALib		High	Rename PPMonoidEvZZ?	John Abbott	23 May 2013 16:58	Renaming	100
17	CoCoALib		Normal	implement "binomial" (coefficient) for RingElem	John Abbott	17 Apr 2014 09:22	New Function	100
15	CoCoALib		High	Adjoint of a non-invertible matrix	John Abbott	16 Sep 2021 13:48	New Function	100
11	CoCoALib		Normal	Bareiss algorithm	John Abbott	10 Oct 2019 18:45	New Function	100
6	CoCoALib		High	Sort out RingElem, RefRingElem, ConstRefRingElem mess	John Abbott	01 Aug 2014 08:59		0
5	CoCoALib		Normal	Coefficient extraction	John Abbott	17 Apr 2014 09:22	New Function	100
4	CoCoALib		Normal	Squarefree GCD-free basis	John Abbott	27 Jan 2020 17:58	New Function	100
3	CoCoALib		Normal	implement creation of a PPMonoidElement from vector<BigInt>	John Abbott	15 Mar 2013 17:35	New Function	100
2	CoCoALib		Normal	Makefile problem in ROOT and/or src/AlgebraicCore	John Abbott	12 Feb 2020 15:00	Makefile	100