

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|-------------------------------------------------------------------|----------|-------------------|---------------|--------|
| 1799 | CoCoALib | | Normal | Clean out OLD CODE? | | 24 Mar 2024 10:52 | Tidying | 0 |
| 1706 | CoCoALib | | Normal | slimgb: Brickenstein, singular | | 30 Oct 2022 20:30 | Improving | 0 |
| 1632 | CoCoALib | | Normal | C++17: notes about updating | | 12 Nov 2021 18:11 | Portability | 0 |
| 1584 | CoCoALib | | Normal | Benchmarks? | | 08 Mar 2023 19:41 | Documentation | 0 |
| 1491 | CoCoALib | | Normal | Unified Gaussian reduction impl | | 08 Mar 2023 19:55 | Tidying | 0 |
| 1419 | CoCoALib | | Low | DynamicBitset::lamAll1s | | 03 Feb 2021 18:18 | Improving | 0 |
| 1378 | CoCoALib | | Normal | Create two separate radical fns (for 0-dim ideals) | | 03 Jul 2023 17:49 | Improving | 0 |
| 1359 | CoCoALib | | Normal | gcd: low degree but big coeffs can be slow | | 30 Oct 2019 22:23 | Improving | 0 |
| 1339 | CoCoALib | | Normal | All PPs of given wdeg | | 16 Oct 2019 14:04 | New Function | 0 |
| 1323 | CoCoALib | | Normal | Improve RealRoots: compute sqfr decomp | | 30 Sep 2019 16:14 | Improving | 0 |
| 1278 | CoCoALib | | Normal | Port old "clever" code for matrix determinant over ZZ to CoCoALib | | 03 May 2019 11:42 | New Function | 0 |
| 1269 | CoCoALib | | Normal | Ideal Ops: sort-cuts for trivial args? | | 04 Apr 2019 15:07 | Improving | 0 |
| 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 |
| 1227 | CoCoALib | | Normal | exgcd; solve Bezout equation | | 29 Aug 2019 14:55 | New Function | 0 |
| 1208 | CoCoALib | | Normal | New function: Threadsafe RandomLinearForm (CoCoALib) | | 01 Oct 2019 11:28 | Safety | 0 |
| 1198 | CoCoALib | | Normal | Non-standard DegRevLex (NonStdDegRevLex, WDegRevLex) | | 23 Sep 2019 12:44 | New Function | 0 |
| 1187 | CoCoALib | | Normal | Matrix rank is slow (over QQ) | | 26 Jun 2018 11:29 | Improving | 0 |
| 1173 | CoCoALib | | Normal | Upper bound for value of poly in an interval | | 04 Apr 2018 11:55 | New Function | 0 |
| 1156 | CoCoALib | | Normal | Printing for RingElem | | 08 Jan 2020 23:02 | Improving | 0 |
| 1150 | CoCoALib | | Normal | New fn: transform ideal with ring hom | | 22 Jun 2020 10:34 | New Function | 0 |
| 1147 | CoCoALib | | Normal | mySquare and myPowerSmallExp | | 30 Apr 2019 17:18 | Tidying | 0 |
| 1134 | CoCoALib | | Normal | Organize better the documentation for CoCoALib | | 09 Apr 2019 10:50 | Documentation | 0 |
| 1098 | CoCoALib | | Normal | Ctors for exceptions/errors | | 06 Sep 2017 15:27 | Tidying | 0 |
| 1059 | CoCoALib | | Normal | Printing ring for ideals (or just for ideals 0 and 1) | | 05 May 2017 16:58 | Improving | 10 |
| 1026 | CoCoALib | | Normal | JanetBasis gives error indet index out of range | | 08 Mar 2017 15:26 | Maths Bugs | 0 |
| 1022 | CoCoALib | | Normal | New "LF" function which is based on StdDeg | | 06 Mar 2017 19:37 | New Function | 20 |
| 1013 | CoCoALib | | Normal | GlobalManager: name of object in examples (and tests) | | 25 Feb 2017 11:11 | Renaming | 10 |
| 1010 | CoCoALib | | Urgent | C++11: Mario's Hilbert scheme code | | 20 Feb 2017 13:19 | Portability | 0 |
| 992 | CoCoALib | | Normal | Poly ring homomorphism to change ordering | | 13 Dec 2016 18:04 | New Function | 0 |
| 987 | CoCoALib | | Normal | GCD: add special case if args are monomials | | 28 Nov 2016 22:04 | Improving | 0 |
| 972 | CoCoALib | | Normal | ex-Polylterator | | 17 Nov 2016 13:21 | Documentation | 0 |

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| 930 | CoCoALib | | Low | Printing TwinFloat as (rational) coeff without brackets | | 24 Sep 2016 21:43 | Improving | 0 |
| 926 | CoCoALib | | Low | Documentation: check layout of history at end of generated HTML files (from the txt files) | | 21 Sep 2016 13:29 | Documentation | 0 |
| 923 | CoCoALib | | Normal | Fn to read symbol range (SymbolRange) | | 16 Sep 2016 15:04 | New Function | 0 |
| 921 | CoCoALib | | Normal | Design GBMill | | 22 May 2017 14:11 | | 0 |
| 919 | CoCoALib | | Normal | Hilbert Driven GBasis | | 22 May 2017 14:11 | | 0 |
| 914 | CoCoALib | | Normal | New function: quorem for univariate polynomials? | | 22 Aug 2016 16:45 | New Function | 0 |
| 906 | CoCoALib | | Normal | External libraries: keep copy of compatible versions? | | 13 Jul 2016 11:19 | Portability | 0 |
| 904 | CoCoALib | | Normal | SmallFpDouble: which impl of InvMod to use? | | 04 Jul 2016 13:45 | Improving | 0 |
| 884 | CoCoALib | | Normal | DistrMPolyInIPP::myPushFront and DistrMPolyInIPP::myPushBack inefficient if arg is a PP | | 24 May 2016 15:25 | Improving | 0 |
| 882 | CoCoALib | | Normal | Impl faster multiplication for DUP (dense univariate polys) | | 09 May 2016 22:10 | Improving | 0 |
| 869 | CoCoALib | | Normal | SmallFpImpl: different repr for computation and for storage? | | 22 Apr 2016 15:14 | Improving | 0 |
| 842 | CoCoALib | | Normal | PPMonoidSparse: comparisons are VERY SLOW | | 15 Feb 2016 13:57 | Improving | 0 |
| 837 | CoCoALib | | Normal | factor is very slow on some simple input polynomials | | 06 Jan 2016 14:40 | Improving | 0 |
| 835 | CoCoALib | | Normal | Make Mario's new code threadsafe | | 09 Dec 2015 16:48 | Safety | 0 |
| 833 | CoCoALib | | Low | UIBC: need include file in RingWeyl.C | | 08 Dec 2015 15:06 | Tidying | 0 |
| 832 | CoCoALib | | Low | Generalize grading matrix | | 14 Mar 2024 11:29 | Data Structures | 20 |
| 826 | CoCoALib | | Normal | Sparse matrices | | 02 Dec 2015 18:24 | Data Structures | 0 |
| 817 | CoCoALib | | High | GenRepr in CoCoALib? | | 17 Nov 2016 14:12 | New Function | 0 |
| 812 | CoCoALib | | Normal | PPMonoid pseudo-ctor without explicit ordering | | 24 Nov 2015 18:16 | New Function | 0 |
| 808 | CoCoALib | | Normal | Alg Extn by non-zero dim ideal | | 18 Nov 2015 23:29 | Tidying | 0 |
| 788 | CoCoALib | | Normal | No doc for DistrMPolyInIFpPP | | 22 Oct 2015 13:49 | Documentation | 0 |
| 787 | CoCoALib | | Normal | Remove refcounts from RingElem? | | 19 Oct 2015 17:08 | Safety | 0 |
| 785 | CoCoALib | | Normal | finite fields: global register of fields already created? | | 15 Oct 2015 17:27 | Improving | 0 |
| 779 | CoCoALib | | Low | Makefile: problem not seeing when files in TmpFactorDir need to be rebuilt | | 17 Sep 2015 22:10 | Makefile | 0 |
| 775 | CoCoALib | | Low | PPMonoid with 1 extra "exponent"? | | 15 Sep 2015 20:18 | Improving | 0 |
| 746 | CoCoALib | | Normal | Problem with GBasis in tower of alg extns | | 21 Mar 2016 14:29 | Various | 0 |
| 740 | CoCoALib | | Normal | Addition of sparse (multivariate) polynomials | | 17 Jun 2016 14:35 | Improving | 0 |
| 725 | CoCoALib | | Normal | Example database: Slow ideal equality test | | 10 Jun 2015 14:24 | Various | 0 |
| 695 | CoCoALib | | Normal | Remove cruft from test files | | 08 May 2015 11:37 | Tidying | 0 |
| 690 | CoCoALib | | Normal | Fault tolerant rational reconstruction: implement simultaneous version | | 23 Apr 2015 19:12 | New Function | 0 |
| 688 | CoCoALib | | Normal | PolyAlgebraHom (PolyRingHom) evaluate multivariate polynomials | | 22 Apr 2015 14:38 | Improving | 10 |

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| 685 | CoCoALib | | High | Use DivMask inside QBGenerator | | 02 Feb 2016 14:16 | Tidying | 0 |
| 682 | CoCoALib | | Low | PPMonoid: add fn to check for overflow in products | | 14 Apr 2015 11:23 | Safety | 0 |
| 681 | CoCoALib | | Low | MemPool: make it easier to get just stats | | 13 Apr 2015 23:25 | Various | 0 |
| 667 | CoCoALib | | Normal | factor: multivariate + finite characteristic | | 04 Mar 2015 20:08 | New Function | 0 |
| 661 | CoCoALib | | Normal | Laurent polynomials | | 23 Jan 2015 13:50 | New Function | 0 |
| 647 | CoCoALib | | Normal | Unique copies of free modules? | | 10 Nov 2014 16:55 | Safety | 0 |
| 640 | CoCoALib | | Normal | What is test-Dynamic1.C | | 29 Oct 2014 11:30 | Tidying | 0 |
| 639 | CoCoALib | | Low | Shadow CoCoA namespace to help guarantee portability (without ambiguity) | | 28 Oct 2014 15:34 | Safety | 0 |
| 628 | CoCoALib | | Normal | Complex twin-floats | | 22 Sep 2014 18:16 | New Function | 0 |
| 627 | CoCoALib | | Normal | Gaussian integer and rationals ZZi, QQi | | 23 Sep 2014 16:30 | New Function | 0 |
| 617 | CoCoALib | | Normal | configure: check all libraries for compatibility | | 09 Sep 2014 12:21 | Portability | 0 |
| 583 | CoCoALib | | Normal | New function for printing with extra information | | 07 Jul 2014 11:48 | New Function | 0 |
| 572 | CoCoALib | | Normal | Split SparsePolyRing.H into two files? Problem with circular includes. | | 17 May 2018 16:36 | Tidying | 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 |
| 569 | CoCoALib | | Normal | Documentation for ReductionCog | | 11 Jun 2014 16:04 | Documentation | 0 |
| 564 | CoCoALib | | Normal | Temporary file for experimentation | | 16 Jul 2014 14:38 | Various | 0 |
| 562 | CoCoALib | | Normal | Subrings | | 29 Sep 2020 13:19 | Safety | 0 |
| 551 | CoCoALib | | Normal | Reconsider overloaded virtual mem fns | | 09 Jul 2014 18:00 | Safety | 0 |
| 550 | CoCoALib | | Normal | add myResolution member field to ideal and (sub)module | | 13 May 2015 09:57 | Data Structures | 0 |
| 547 | CoCoALib | | Normal | elim using RingTwinFloat triggers error "SERIOUS" | | 15 Jun 2016 14:35 | Various | 0 |
| 539 | CoCoALib | | Low | Functions to clean up a factorization | | 22 Jan 2024 20:28 | New Function | 0 |
| 537 | CoCoALib | | Low | FloatStr uses too much memory | | 16 Apr 2014 12:01 | Tidying | 0 |
| 516 | CoCoALib | | Normal | Make squarefreefactor work in multiple polynomial extns | | 10 Jul 2014 14:21 | Tidying | 0 |
| 515 | CoCoALib | | Normal | Fn to "flatten" multiple polynomial extns | | 10 Jul 2014 14:22 | New Function | 0 |
| 497 | CoCoALib | | Normal | Clang: automatic bug finding | | 04 Apr 2014 17:20 | Safety | 0 |
| 459 | CoCoALib | | Low | LinearSimplify: port to CoCoALib | | 20 May 2014 09:47 | New Function | 0 |
| 455 | CoCoALib | | Normal | Which sets of generators in an ideal? | | 14 Jul 2014 15:17 | Various | 0 |
| 442 | CoCoALib | | Normal | Eigenvectors | | 09 Jul 2014 18:05 | New Function | 0 |
| 436 | CoCoALib | | Normal | Improve UPoly eval at BigRat for binary rational | | 01 Aug 2014 08:59 | New Function | 0 |
| 420 | CoCoALib | | Normal | Allow user to give a name to a ring | | 13 May 2015 09:55 | Improving | 0 |
| 401 | CoCoALib | | Normal | NewFreeModule of dimension 0 | | 31 Jul 2014 14:13 | Various | 0 |
| 400 | CoCoALib | | Normal | add myJBMill member field to ideal | | 15 Sep 2014 12:04 | New Function | 0 |

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| 360 | CoCoALib | | Normal | CoCoAServer: what future, what issues? | | 28 Apr 2017 11:19 | Various | 0 |
| 337 | CoCoALib | | Normal | Module homs | | 31 Jul 2014 12:40 | New Function | 0 |
| 329 | CoCoALib | | Normal | Why is DMPI slower than DMPClean? | | 13 May 2015 09:54 | Improving | 0 |
| 315 | CoCoALib | | Normal | Add doc for ApproxPts2 | | 10 Jul 2014 16:23 | Documentation | 0 |
| 289 | CoCoALib | | Normal | PrimeField -- new fn? | | 01 Aug 2014 08:59 | New Function | 0 |
| 282 | CoCoALib | | Normal | Global setting: to use IsProbPrime in place of IsPrime | | 01 Aug 2014 08:59 | | 0 |
| 281 | CoCoALib | | Normal | Store unique copy of FF(p) in GlobalManager | | 04 Apr 2014 17:10 | | 0 |
| 277 | CoCoALib | | Normal | Eliminate class RefPPMonoidElem? | | 01 Aug 2014 08:59 | | 0 |
| 272 | CoCoALib | | Normal | Forward declarations | | 07 Apr 2014 18:14 | Tidying | 0 |
| 263 | CoCoALib | | High | Move the various <matrix>::mySetEntry procedures into MatrixBase | | 01 Aug 2014 16:29 | Tidying | 0 |
| 258 | CoCoALib | | Normal | Multivariate lifting | | 01 Aug 2014 08:59 | | 0 |
| 257 | CoCoALib | | Normal | Transcribe C4 code for GCD in QQ[x] | | 01 Aug 2014 08:59 | | 0 |
| 246 | CoCoALib | | Normal | Approx QIR | | 04 Apr 2014 17:16 | New Function | 0 |
| 232 | CoCoALib | | Normal | No test for QBGenerator | | 15 Apr 2015 20:15 | Various | 0 |
| 231 | CoCoALib | | Normal | Documentation for QBGenerator needs to be improved. | | 09 Jul 2014 18:06 | Documentation | 0 |
| 229 | CoCoALib | | Normal | Generator for random ring elements | | 01 Aug 2014 08:59 | New Function | 0 |
| 227 | CoCoALib | | Normal | HilbertBasis from Normaliz: full-lattice or not? | | 31 Jul 2014 12:39 | New Function | 0 |
| 174 | CoCoALib | | Normal | IsStdGraded: add for PPOrdering, PPMonoid, (Sparse)PolyRing.. | | 01 Aug 2014 08:59 | New Function | 0 |
| 161 | CoCoALib | | Normal | Convert old "task table" into redmine | | 07 Apr 2014 14:35 | Documentation | 0 |
| 151 | CoCoALib | | Normal | Iterated CanonicalHom | | 13 May 2015 09:58 | New Function | 0 |
| 149 | CoCoALib | | Normal | Makefile dependencies | | 01 Aug 2014 08:59 | Makefile | 0 |
| 146 | CoCoALib | | Normal | Buchberger-Moeller: input conversions | | 10 Jul 2014 14:17 | New Function | 0 |
| 134 | CoCoALib | | Normal | Convenience ring ctors and homs | | 11 Jul 2014 12:06 | New Function | 0 |
| 130 | CoCoALib | | Normal | Design problem in ideals | | 13 May 2015 09:56 | Data Structures | 0 |
| 129 | CoCoALib | | Normal | Better GCD | | 09 Jul 2014 18:08 | New Function | 0 |
| 126 | CoCoALib | | Normal | New datastructures directory | | 13 May 2015 09:56 | Data Structures | 0 |
| 123 | CoCoALib | | Normal | IdealOfPoints with generic coeffs | | 09 Jul 2014 18:15 | New Function | 0 |
| 120 | CoCoALib | | Normal | LT over QQ: surprisingly slow | | 10 Jul 2014 16:26 | Various | 0 |
| 112 | CoCoALib | | Normal | automatic creation of all function signatures | | 07 Apr 2014 14:34 | Documentation | 0 |
| 76 | CoCoALib | | Low | keywords in documentation | | 04 Apr 2014 17:51 | Documentation | 0 |
| 74 | CoCoALib | | Normal | printing polynomials | | 14 Jul 2014 11:07 | Various | 10 |
| 59 | CoCoALib | | Low | List of all functions in CoCoALib | | 08 Mar 2023 19:44 | Documentation | 10 |

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| 1096 | CoCoALib | | Low | WEB SITE: HTML is not clean! | Anna Maria Bigatti | 31 Aug 2017 10:05 | Documentation | 0 |
| 1070 | CoCoALib | | Normal | Slug: MakeTermOrd (rk calls in RemoveRedundantRows) | Anna Maria Bigatti | 17 May 2017 13:47 | Improving | 10 |
| 913 | CoCoALib | | Normal | Read input from SymbolicData database | Anna Maria Bigatti | 02 Aug 2016 10:55 | New Function | 0 |
| 809 | CoCoALib | | Normal | FastCmp for degree -- useful? | Anna Maria Bigatti | 27 Nov 2015 16:06 | Tidying | 0 |
| 791 | CoCoALib | | Normal | Clean code for DistrMPolyClean | Anna Maria Bigatti | 02 Nov 2015 22:13 | Tidying | 0 |
| 703 | CoCoALib | | Normal | Add more operations between modules (CoCoALib) | Anna Maria Bigatti | 27 Oct 2017 11:53 | New Function | 10 |
| 686 | CoCoALib | | Normal | myAddMul in poly rings | Anna Maria Bigatti | 20 Apr 2015 13:22 | Tidying | 20 |
| 624 | CoCoALib | | Normal | Wikipedia | Anna Maria Bigatti | 06 Nov 2017 13:40 | Documentation | 0 |
| 589 | CoCoALib | | Normal | Implement gin (generic initial ideal) in cocoalib | Anna Maria Bigatti | 15 Jul 2014 18:17 | New Function | 0 |
| 505 | CoCoALib | | Normal | Documentation: write doc for RingDenseUPolyClean | Anna Maria Bigatti | 21 Sep 2016 17:15 | Documentation | 0 |
| 409 | CoCoALib | | High | Minimal syzygies (optimized implementation) | Anna Maria Bigatti | 31 Jul 2014 12:36 | New Function | 0 |
| 399 | CoCoALib | | High | add myHilbertSeries member field to ideal and (sub)module | Anna Maria Bigatti | 30 Jul 2014 17:04 | New Function | 0 |
| 387 | CoCoALib | | High | implement algorithm(s) for resolutions | Anna Maria Bigatti | 30 Jul 2014 17:04 | New Function | 0 |
| 205 | CoCoALib | | Normal | Example for change of coordinates with coeffs in a matrix | Anna Maria Bigatti | 14 Jul 2014 14:39 | Documentation | 0 |
| 196 | CoCoALib | | Normal | PPWithMask needs checking | Anna Maria Bigatti | 04 Apr 2014 17:50 | Documentation | 0 |
| 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 |
| 1160 | CoCoALib | | Normal | Clean up revised RatReconstructByContFrac code | John Abbott | 26 Feb 2019 16:33 | Tidying | 0 |
| 752 | CoCoALib | | Normal | Investigate using Boost.build instead of make | John Abbott | 28 Apr 2017 11:23 | Portability | 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 |
| 440 | CoCoALib | | High | Port RealRoots to C++ | John Abbott | 19 Oct 2016 10:26 | New Function | 0 |
| 396 | CoCoALib | | Normal | PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem? | John Abbott | 13 May 2015 09:57 | Data Structures | 0 |

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| 145 | CoCoALib | Feature #143: Buchberger-Moeller (parent task) | Urgent | Buchberger-Moeller: fast modular impl | John Abbott | 10 Jul 2014 14:17 | New Function | 0 |
| 6 | CoCoALib | | High | Sort out RingElem, RefRingElem, ConstRefRingElem mess | John Abbott | 01 Aug 2014 08:59 | | 0 |