

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|----------|-------------------|-----------------|--------|
| 329 | CoCoALib | | Normal | Why is DMPI slower than DMPClean? | | 13 May 2015 09:54 | Improving | 0 |
| 455 | CoCoALib | | Normal | Which sets of generators in an ideal? | | 14 Jul 2014 15:17 | Various | 0 |
| 942 | CoCoALib | | Normal | Which names to use? Intersection/saturation vs intersect/saturate | | 22 Mar 2024 10:20 | Renaming | 20 |
| 1464 | CoCoALib | | Normal | What is the difference between InterruptReceived and InterruptedBySignal | | 01 Mar 2024 09:54 | Tidying | 0 |
| 640 | CoCoALib | | Normal | What is test-Dynamic1.C | | 29 Oct 2014 11:30 | Tidying | 0 |
| 970 | CoCoALib | | Normal | Weights in ElimMat? | | 11 Nov 2016 15:49 | Improving | 10 |
| 742 | CoCoALib | | Normal | View PP exponent vector (and order vector?) as an array of long? | | 01 Sep 2015 12:08 | Improving | 10 |
| 1777 | CoCoALib | | Normal | VerificationLevel: just 3? Low, high, guaranteed? | | 16 Feb 2024 10:00 | Various | 0 |
| 1764 | CoCoALib | | Low | Verbosity messages: avoid printing BIG values | | 25 Apr 2024 21:44 | Improving | 10 |
| 1793 | CoCoALib | | Normal | Use ErrorContext instead of string FnName | | 26 Mar 2024 11:50 | Improving | 60 |
| 685 | CoCoALib | | High | Use DivMask inside QBGenerator | | 02 Feb 2016 14:16 | Tidying | 0 |
| 1702 | CoCoALib | | Low | Use C++ attributes | | 22 Apr 2024 21:26 | Tidying | 10 |
| 1173 | CoCoALib | | Normal | Upper bound for value of poly in an interval | | 04 Apr 2018 11:55 | New Function | 0 |
| 710 | CoCoALib | | Normal | Update normaliz interface? | | 16 Feb 2024 18:25 | Improving | 10 |
| 1628 | CoCoALib | | Normal | Unused variables, params, data members | | 11 Mar 2023 12:29 | Tidying | 10 |
| 1678 | CoCoALib | | Normal | Unsigned long for indexes (& sizes?) | | 07 Mar 2024 20:25 | Safety | 10 |
| 482 | CoCoALib | | Normal | Unique copies of rings -- smart ctor | | 20 Oct 2015 14:33 | Safety | 10 |
| 647 | CoCoALib | | Normal | Unique copies of free modules? | | 10 Nov 2014 16:55 | Safety | 0 |
| 1491 | CoCoALib | | Normal | Unified Gaussian reduction impl | | 08 Mar 2023 19:55 | Tidying | 0 |
| 1521 | CoCoALib | | Normal | Unexpectedly slow example with larger types for SmallExponent_t | | 08 Mar 2023 19:54 | Various | 0 |
| 833 | CoCoALib | | Low | UIBC: need include file in RingWeyl.C | | 08 Dec 2015 15:06 | Tidying | 0 |
| 1381 | CoCoALib | | Normal | Type ideal for ZZ[x[1..n]] | | 16 Feb 2024 09:47 | Data Structures | 10 |
| 257 | CoCoALib | | Normal | Transcribe C4 code for GCD in QQ[x] | | 01 Aug 2014 08:59 | | 0 |
| 1355 | CoCoALib | | Normal | TmpLDP uses srand and time | | 01 Mar 2024 09:50 | Tidying | 0 |
| 1802 | CoCoALib | | Normal | Tidying ideal generators (for non-polynomial ideals) | | 25 Mar 2024 19:05 | Improving | 0 |
| 784 | CoCoALib | | Normal | threadsafety: Scott Meyers's advice about cached values | | 18 Jan 2016 18:12 | Safety | 10 |
| 801 | CoCoALib | | Normal | Test whether a symbol is in a ring | | 07 Mar 2024 21:36 | New Function | 0 |
| 564 | CoCoALib | | Normal | Temporary file for experimentation | | 16 Jul 2014 14:38 | Various | 0 |
| 1682 | CoCoALib | | Normal | swap for new classes | | 16 Feb 2024 09:35 | Improving | 10 |
| 1692 | CoCoALib | | Normal | Suggestion: Add "JumpTo" function to prime iterators | | 15 Feb 2024 22:39 | Improving | 10 |
| 1738 | CoCoALib | | Normal | Suggestion about Graded polynomial rings | | 05 May 2023 08:47 | Data Structures | 10 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|----------|-------------------|-----------------|--------|
| 562 | CoCoALib | | Normal | Subrings | | 29 Sep 2020 13:19 | Safety | 0 |
| 1282 | CoCoALib | | Normal | subresultant | | 08 Mar 2024 17:54 | New Function | 20 |
| 1492 | CoCoALib | | Low | submat of a submat | | 16 Feb 2024 17:28 | Improving | 0 |
| 281 | CoCoALib | | Normal | Store unique copy of FF(p) in GlobalManager | | 04 Apr 2014 17:10 | | 0 |
| 1446 | CoCoALib | | Normal | Start using C++14 "move" capability | | 08 Mar 2024 18:00 | Improving | 10 |
| 1130 | CoCoALib | | Normal | SqFreeFactor: should it work over ZZ? | | 05 Apr 2019 15:39 | Improving | 10 |
| 572 | CoCoALib | | Normal | Split SparsePolyRing.H into two files? Problem with circular includes. | | 17 May 2018 16:36 | Tidying | 0 |
| 839 | CoCoALib | | Low | SparsePolyIter: make more compatible with STL | | 07 Mar 2024 20:01 | Improving | 10 |
| 1602 | CoCoALib | | Low | Sparse matrix (SparseMat) | | 15 Feb 2024 22:42 | New Function | 0 |
| 826 | CoCoALib | | Normal | Sparse matrices | | 02 Dec 2015 18:24 | Data Structures | 0 |
| 1813 | CoCoALib | | Normal | Some tests have become slower | | 07 Apr 2024 21:53 | Safety | 10 |
| 869 | CoCoALib | | Normal | SmallFpImpl: different repr for computation and for storage? | | 22 Apr 2016 15:14 | Improving | 0 |
| 904 | CoCoALib | | Normal | SmallFpDouble: which impl of InvMod to use? | | 04 Jul 2016 13:45 | Improving | 0 |
| 1518 | CoCoALib | | Normal | SLUG: Printing PPs with many indets | | 15 Feb 2024 22:45 | Improving | 20 |
| 1118 | CoCoALib | | Low | SLUG: factorization of x^{9999} | | 31 Jan 2024 22:20 | Improving | 10 |
| 968 | CoCoALib | | Normal | Slow NF example | | 10 Nov 2016 21:33 | Improving | 10 |
| 1706 | CoCoALib | | Normal | slimgb: Brickenstein, singular | | 30 Oct 2022 20:30 | Improving | 0 |
| 1485 | CoCoALib | | Normal | Simple syntax for making a quotient ring? | | 08 Mar 2023 19:51 | Improving | 0 |
| 1630 | CoCoALib | | Normal | Signal handler not portable? | | 15 Feb 2024 22:42 | Portability | 0 |
| 1699 | CoCoALib | | Normal | Shell scripts: Shebang line, etc | | 16 Feb 2024 10:01 | Portability | 10 |
| 639 | CoCoALib | | Low | Shadow CoCoA namespace to help guarantee portability (without ambiguity) | | 28 Oct 2014 15:34 | Safety | 0 |
| 432 | CoCoALib | | Normal | Semantics of IsPrintedWithMinus | | 14 Jul 2014 18:13 | Various | 10 |
| 1643 | CoCoALib | | Normal | rref slower than expected (maybe) [[reduced row echelon form]] | | 01 Mar 2024 09:54 | Improving | 0 |
| 1014 | CoCoALib | | Low | RowMat, ColMat with arg an empty list/vector | | 24 Feb 2017 17:54 | Tidying | 10 |
| 150 | CoCoALib | | Normal | RingOf rather than owner? (and than AmbientRing, ...) | | 30 Jul 2014 17:59 | Renaming | 10 |
| 1370 | CoCoALib | | Low | RingID counter increased inside some functions | | 31 Jan 2024 22:19 | Improving | 0 |
| 1685 | CoCoALib | | Normal | RingBase::mySwap needed? | | 07 Mar 2024 20:49 | Improving | 10 |
| 1669 | CoCoALib | | Normal | Review File subtree hierarchy | | 08 Mar 2023 19:56 | Tidying | 0 |
| 1673 | CoCoALib | | Normal | Review examples | | 08 Mar 2023 19:45 | Documentation | 0 |
| 787 | CoCoALib | | Normal | Remove refcounts from RingElem? | | 19 Oct 2015 17:08 | Safety | 0 |
| 695 | CoCoALib | | Normal | Remove cruft from test files | | 08 May 2015 11:37 | Tidying | 0 |
| 1677 | CoCoALib | | Normal | release-source script: use shell globbing? | | 16 Feb 2024 10:01 | Tidying | 10 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|----------|-------------------|-----------------|--------|
| 1810 | CoCoALib | | Normal | Release CoCoALib 0.99900 | | 29 Mar 2024 09:00 | Various | 0 |
| 871 | CoCoALib | | Normal | Redesign ideals | | 31 Oct 2023 11:24 | Data Structures | 0 |
| 551 | CoCoALib | | Normal | Reconsider overloaded virtual mem fns | | 09 Jul 2014 18:00 | Safety | 0 |
| 1369 | CoCoALib | | Low | RandomUnimodularMat is slow with many iters | | 09 Jan 2020 12:19 | Improving | 10 |
| 1691 | CoCoALib | | Normal | Random and threadsafe? | | 15 Feb 2024 22:38 | Safety | 0 |
| 513 | CoCoALib | | High | Quick/correct flag for bool3 fns | | 10 Jul 2014 16:30 | New Function | 10 |
| 974 | CoCoALib | | Normal | QIR/RealRootRefine: improve behaviour if input interval has "nasty" endpoints | | 01 Mar 2021 21:25 | Improving | 10 |
| 1715 | CoCoALib | | Low | ProductBigInt (also ProductBigRat???) | | 23 Jan 2024 22:14 | New Function | 0 |
| 591 | CoCoALib | | Low | Problem with template instantiation and order of include directives | | 09 Feb 2024 10:18 | Portability | 50 |
| 746 | CoCoALib | | Normal | Problem with GBasis in tower of alg extns | | 21 Mar 2016 14:29 | Various | 0 |
| 930 | CoCoALib | | Low | Printing TwinFloat as (rational) coeff without brackets | | 24 Sep 2016 21:43 | Improving | 0 |
| 1059 | CoCoALib | | Normal | Printing ring for ideals (or just for ideals 0 and 1) | | 05 May 2017 16:58 | Improving | 10 |
| 222 | CoCoALib | | Normal | Printing polynomials - spaces between terms | | 14 Mar 2023 21:27 | Various | 30 |
| 74 | CoCoALib | | Normal | printing polynomials | | 14 Jul 2014 11:07 | Various | 10 |
| 1156 | CoCoALib | | Normal | Printing for RingElem | | 08 Jan 2020 23:02 | Improving | 0 |
| 289 | CoCoALib | | Normal | PrimeField -- new fn? | | 01 Aug 2014 08:59 | New Function | 0 |
| 803 | CoCoALib | | Normal | PPOrdering: use it to compute WDeg? | | 06 Nov 2017 14:00 | New Function | 10 |
| 842 | CoCoALib | | Normal | PPMonoidSparse: comparisons are VERY SLOW | | 15 Feb 2016 13:57 | Improving | 0 |
| 682 | CoCoALib | | Low | PPMonoid: add fn to check for overflow in products | | 14 Apr 2015 11:23 | Safety | 0 |
| 775 | CoCoALib | | Low | PPMonoid with 1 extra "exponent"? | | 15 Sep 2015 20:18 | Improving | 0 |
| 812 | CoCoALib | | Normal | PPMonoid pseudo-ctor without explicit ordering | | 24 Nov 2015 18:16 | New Function | 0 |
| 1278 | CoCoALib | | Normal | Port old "clever" code for matrix determinant over ZZ to CoCoALib | | 03 May 2019 11:42 | New Function | 0 |
| 438 | CoCoALib | | Normal | Polynomial multiplication (product of RingElem) | | 10 Jul 2014 16:28 | Various | 10 |
| 688 | CoCoALib | | Normal | PolyAlgebraHom (PolyRingHom) evaluate multivariate polynomials | | 22 Apr 2015 14:38 | Improving | 10 |
| 992 | CoCoALib | | Normal | Poly ring homomorphism to change ordering | | 13 Dec 2016 18:04 | New Function | 0 |
| 262 | CoCoALib | | Normal | Play with GIT | | 08 Mar 2023 19:54 | Various | 0 |
| 1134 | CoCoALib | | Normal | Organize better the documentation for CoCoALib | | 09 Apr 2019 10:50 | Documentation | 0 |
| 651 | CoCoALib | | Normal | Optimized algorithms for implicitization (slicing algorithm, elim, subalgebra..) | | 12 Feb 2015 10:33 | New Function | 10 |
| 1635 | CoCoALib | | Normal | NR for polys with coeffs in PID | | 16 Feb 2024 09:39 | New Function | 10 |
| 728 | CoCoALib | | Normal | Noncommutative algebra "of solvable type" | | 09 Jul 2015 08:39 | New Function | 10 |
| 1198 | CoCoALib | | Normal | Non-standard DegRevLex (NonStdDegRevLex, WDegRevLex) | | 23 Sep 2019 12:44 | New Function | 0 |
| 232 | CoCoALib | | Normal | No test for QBGenerator | | 15 Apr 2015 20:15 | Various | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|----------|-------------------|-----------------|--------|
| 788 | CoCoALib | | Normal | No doc for DistrMPolyInIFpPP | | 22 Oct 2015 13:49 | Documentation | 0 |
| 841 | CoCoALib | | Normal | NewPolyRing: tidy up the many different versions | | 01 Sep 2017 11:30 | Tidying | 10 |
| 401 | CoCoALib | | Normal | NewFreeModule of dimension 0 | | 31 Jul 2014 14:13 | Various | 0 |
| 914 | CoCoALib | | Normal | New function: quorem for univariate polynomials? | | 22 Aug 2016 16:45 | New Function | 0 |
| 1654 | CoCoALib | | Normal | New function IsInSymbols | | 12 May 2023 08:03 | | 0 |
| 1150 | CoCoALib | | Normal | New fn: transform ideal with ring hom | | 22 Jun 2020 10:34 | New Function | 0 |
| 126 | CoCoALib | | Normal | New datastructures directory | | 13 May 2015 09:56 | Data Structures | 0 |
| 1022 | CoCoALib | | Normal | New "LF" function which is based on StdDeg | | 06 Mar 2017 19:37 | New Function | 20 |
| 583 | CoCoALib | | Normal | New function for printing with extra information | | 07 Jul 2014 11:48 | New Function | 0 |
| 1193 | CoCoALib | | Low | Naming convention mistakes | | 08 Mar 2023 20:52 | Renaming | 0 |
| 1147 | CoCoALib | | Normal | mySquare and myPowerSmallExp | | 30 Apr 2019 17:18 | Tidying | 0 |
| 896 | CoCoALib | | Normal | myIsEqual, myCmp: direct comparisons between RingElem and MachineInt, BigInt and BigRat? | | 25 Jun 2018 15:31 | Improving | 10 |
| 258 | CoCoALib | | Normal | Multivariate lifting | | 01 Aug 2014 08:59 | | 0 |
| 1465 | CoCoALib | | Normal | mul(MAT,MAT,MAT) | | 16 Feb 2024 10:04 | Tidying | 10 |
| 1225 | CoCoALib | | High | Move to C++14 (skipping C++11) | | 08 Mar 2024 17:46 | Portability | 30 |
| 263 | CoCoALib | | High | Move the various <matrix>::mySetEntry procedures into MatrixBase | | 01 Aug 2014 16:29 | Tidying | 0 |
| 297 | CoCoALib | | Normal | Modules design: brainstorming | | 31 Jul 2014 14:55 | New Function | 30 |
| 337 | CoCoALib | | Normal | Module homs | | 31 Jul 2014 12:40 | New Function | 0 |
| 1620 | CoCoALib | | Normal | MinPolyQuot not documented | | 15 Oct 2021 14:24 | | 0 |
| 437 | CoCoALib | | Normal | MemPool: order free blocks? | | 13 Apr 2015 23:31 | Tidying | 10 |
| 681 | CoCoALib | | Low | MemPool: make it easier to get just stats | | 13 Apr 2015 23:25 | Various | 0 |
| 1562 | CoCoALib | | Normal | matrix.H and MatrixView.H | | 08 Mar 2023 19:56 | Tidying | 0 |
| 1187 | CoCoALib | | Normal | Matrix rank is slow (over QQ) | | 26 Jun 2018 11:29 | Improving | 0 |
| 206 | CoCoALib | | Urgent | Matrix equation solving: LinKer | | 22 Mar 2024 09:42 | New Function | 30 |
| 675 | CoCoALib | | Normal | Matrix determinant over multivariate poly ring | | 22 May 2015 13:45 | Tidying | 10 |
| 779 | CoCoALib | | Low | Makefile: problem not seeing when files in TmpFactorDir need to be rebuilt | | 17 Sep 2015 22:10 | Makefile | 0 |
| 149 | CoCoALib | | Normal | Makefile dependencies | | 01 Aug 2014 08:59 | Makefile | 0 |
| 516 | CoCoALib | | Normal | Make squarefreefactor work in multiple polynomial extns | | 10 Jul 2014 14:21 | Tidying | 0 |
| 835 | CoCoALib | | Normal | Make Mario's new code threadsafe | | 09 Dec 2015 16:48 | Safety | 0 |
| 1414 | CoCoALib | | High | Make class RingElemVector? | | 25 Apr 2024 21:53 | Data Structures | 20 |
| 1266 | CoCoALib | | Normal | Make a poly ring QQ[x,y,z] also contain a ZZ[x,y,z] | | 28 Mar 2019 16:42 | Improving | 0 |
| 934 | CoCoALib | | Normal | MachineInt: change semantics? | | 22 Apr 2024 21:32 | Safety | 30 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|----------|-------------------|-----------------|--------|
| 1666 | CoCoALib | | Normal | MachineInt: chase through ULL changes | | 16 Apr 2024 22:40 | Tidying | 10 |
| 925 | CoCoALib | | Normal | MachineInt or long for args which are indices (yet again) | | 16 Apr 2024 22:29 | Safety | 50 |
| 120 | CoCoALib | | Normal | LT over QQ: surprisingly slow | | 10 Jul 2014 16:26 | Various | 0 |
| 601 | CoCoALib | | Normal | LongRange: in which file should it be declared/defined? | | 08 Mar 2023 20:45 | Tidying | 10 |
| 59 | CoCoALib | | Low | List of all functions in CoCoALib | | 08 Mar 2023 19:44 | Documentation | 10 |
| 459 | CoCoALib | | Low | LinearSimplify: port to CoCoALib | | 20 May 2014 09:47 | New Function | 0 |
| 661 | CoCoALib | | Normal | Laurent polynomials | | 23 Jan 2015 13:50 | New Function | 0 |
| 76 | CoCoALib | | Low | keywords in documentation | | 04 Apr 2014 17:51 | Documentation | 0 |
| 1815 | CoCoALib | | Normal | JSON and UUID | | 02 May 2024 19:58 | New Function | 10 |
| 1026 | CoCoALib | | Normal | JanetBasis gives error indet index out of range | | 08 Mar 2017 15:26 | Maths Bugs | 0 |
| 151 | CoCoALib | | Normal | Iterated CanonicalHom | | 13 May 2015 09:58 | New Function | 0 |
| 174 | CoCoALib | | Normal | IsStdGraded: add for PPOrdering, PPMonoid, (Sparse)PolyRing.. | | 01 Aug 2014 08:59 | New Function | 0 |
| 947 | CoCoALib | | Normal | IsRadical for ideal? | | 23 Jan 2024 22:13 | New Function | 10 |
| 885 | CoCoALib | | Normal | IsIrred3: fast 3-way irred test (returning bool3) | | 30 Apr 2019 17:19 | New Function | 10 |
| 1637 | CoCoALib | | Low | Intersection of Ideals: has GBasis? | | 16 Feb 2024 17:25 | Improving | 0 |
| 436 | CoCoALib | | Normal | Improve UPoly eval at BigRat for binary rational | | 01 Aug 2014 08:59 | New Function | 0 |
| 142 | CoCoALib | | Normal | Improve threadsafety | | 21 Mar 2024 20:29 | Safety | 50 |
| 1324 | CoCoALib | | Normal | Improve RootBound | | 30 Oct 2019 21:44 | Improving | 10 |
| 1323 | CoCoALib | | Normal | Improve RealRoots: compute sqfr decomp | | 30 Sep 2019 16:14 | Improving | 0 |
| 1657 | CoCoALib | | Normal | Improve CertifyNotPower | | 31 Jan 2024 22:03 | Improving | 0 |
| 866 | CoCoALib | | Normal | implicit, ImplicitHypersurface: improve output verification | | 22 Mar 2024 09:43 | Tidying | 20 |
| 1645 | CoCoALib | | Normal | Implement monic0(f) for the case monic(0)? | | 16 Feb 2024 09:38 | Improving | 10 |
| 882 | CoCoALib | | Normal | Impl faster multiplication for DUP (dense univariate polys) | | 09 May 2016 22:10 | Improving | 0 |
| 1255 | CoCoALib | | Normal | Ideals with trivial GBasis | | 08 Mar 2023 19:49 | Improving | 0 |
| 114 | CoCoALib | | Normal | Ideals of polynomials | | 10 Jul 2014 14:26 | Tidying | 10 |
| 123 | CoCoALib | | Normal | IdealOfPoints with generic coeffs | | 09 Jul 2014 18:15 | New Function | 0 |
| 1168 | CoCoALib | | Normal | ideal: does const ourGetPtr really need to be private? | | 08 Mar 2024 17:26 | Data Structures | 40 |
| 1269 | CoCoALib | | Normal | Ideal Ops: sort-cuts for trivial args? | | 04 Apr 2019 15:07 | Improving | 0 |
| 1267 | CoCoALib | | Normal | Ideal equality | | 09 Apr 2019 17:48 | Improving | 10 |
| 1349 | CoCoALib | | Normal | ideal ctor where given gens are a gbasis | | 16 Feb 2024 09:52 | Improving | 10 |
| 1472 | CoCoALib | | Low | Idea for for loops | | 16 Feb 2024 09:55 | New Function | 10 |
| 1778 | CoCoALib | | Normal | Homogenizer | | 09 May 2024 20:58 | New Function | 10 |
| 1444 | CoCoALib | | Normal | HNF: Hermite Normal Form | | 16 Feb 2024 09:53 | New Function | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|----------|-------------------|-----------------|--------|
| 227 | CoCoALib | | Normal | HilbertBasis from Normaliz: full-lattice or not? | | 31 Jul 2014 12:39 | New Function | 0 |
| 919 | CoCoALib | | Normal | Hilbert Driven GBasis | | 22 May 2017 14:11 | | 0 |
| 1049 | CoCoALib | | Low | GroebnerFan: slow examples | | 11 Mar 2024 11:12 | Various | 10 |
| 1069 | CoCoALib | | Normal | GroebnerFan: ERROR: Matrix must be invertible | | 17 Dec 2018 15:16 | Improving | 10 |
| 1013 | CoCoALib | | Normal | GlobalManager: name of object in examples (and tests) | | 25 Feb 2017 11:11 | Renaming | 10 |
| 763 | CoCoALib | | Normal | GlobalManager: initialization compatible with initialization of external libs | | 21 Mar 2016 16:55 | Portability | 10 |
| 1388 | CoCoALib | | Normal | GlobalManager: create SignalWatcher internally? | | 01 Mar 2024 09:49 | Safety | 0 |
| 282 | CoCoALib | | Normal | Global setting: to use IsProbPrime in place of IsPrime | | 01 Aug 2014 08:59 | | 0 |
| 840 | CoCoALib | | Normal | GINV: alex basis | | 31 Mar 2016 13:05 | New Function | 10 |
| 986 | CoCoALib | | Low | GFan: require version newer than 0.6 | | 22 Apr 2024 20:06 | Safety | 10 |
| 1542 | CoCoALib | | Normal | gfan does not "deinitialize" | | 08 Mar 2023 19:53 | Various | 30 |
| 1470 | CoCoALib | | Normal | Get indexed indets from a polyring | | 07 Mar 2024 20:36 | New Function | 0 |
| 1664 | CoCoALib | | Normal | geobucket: documentation | | 08 Mar 2023 19:44 | Documentation | 0 |
| 817 | CoCoALib | | High | GenRepr in CoCoALib? | | 17 Nov 2016 14:12 | New Function | 0 |
| 229 | CoCoALib | | Normal | Generator for random ring elements | | 01 Aug 2014 08:59 | New Function | 0 |
| 1668 | CoCoALib | | Normal | Generalize prim | | 31 Jan 2024 22:03 | Improving | 0 |
| 832 | CoCoALib | | Low | Generalize grading matrix | | 14 Mar 2024 11:29 | Data Structures | 20 |
| 1359 | CoCoALib | | Normal | gcd: low degree but big coeffs can be slow | | 30 Oct 2019 22:23 | Improving | 0 |
| 987 | CoCoALib | | Normal | GCD: add special case if args are monomials | | 28 Nov 2016 22:04 | Improving | 0 |
| 1757 | CoCoALib | | Normal | gcd(f,f) is slow | | 16 Feb 2024 09:57 | Improving | 0 |
| 154 | CoCoALib | | Normal | GCD normalization (e.g. monic) | | 24 Nov 2016 13:56 | Tidying | 20 |
| 1667 | CoCoALib | | Urgent | GBasis over ZZ: port to CoCoALib | | 09 May 2024 20:46 | Improving | 10 |
| 627 | CoCoALib | | Normal | Gaussian integer and rationals ZZi, QQi | | 23 Sep 2014 16:30 | New Function | 0 |
| 539 | CoCoALib | | Low | Functions to clean up a factorization | | 22 Jan 2024 20:28 | New Function | 0 |
| 1219 | CoCoALib | | Normal | Frobby version number | | 08 Mar 2023 19:40 | Documentation | 10 |
| 1371 | CoCoALib | | Low | French students' example with GFan | | 27 Nov 2019 15:53 | Improving | 10 |
| 305 | CoCoALib | | Normal | FreeModule: unique copy? | | 10 Dec 2023 20:43 | Tidying | 10 |
| 272 | CoCoALib | | Normal | Forward declarations | | 07 Apr 2014 18:14 | Tidying | 0 |
| 923 | CoCoALib | | Normal | Fn to read symbol range (SymbolRange) | | 16 Sep 2016 15:04 | New Function | 0 |
| 515 | CoCoALib | | Normal | Fn to "flatten" multiple polynomial extns | | 10 Jul 2014 14:22 | New Function | 0 |
| 537 | CoCoALib | | Low | FloatStr uses too much memory | | 16 Apr 2014 12:01 | Tidying | 0 |
| 785 | CoCoALib | | Normal | finite fields: global register of fields already created? | | 15 Oct 2015 17:27 | Improving | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|----------|-------------------|-----------------|--------|
| 1767 | CoCoALib | | Normal | Finalize design for ideals in CoCoALib | | 08 Mar 2024 17:26 | Data Structures | 10 |
| 1437 | CoCoALib | | Normal | Filling matrix row/col from a vector | | 15 Feb 2024 22:46 | New Function | 0 |
| 690 | CoCoALib | | Normal | Fault tolerant rational reconstruction: implement simultaneous version | | 23 Apr 2015 19:12 | New Function | 0 |
| 1582 | CoCoALib | | Normal | Factorization in $K(a,b)[x,y]$ | | 07 Mar 2024 20:23 | Improving | 0 |
| 667 | CoCoALib | | Normal | factor: multivariate + finite characteristic | | 04 Mar 2015 20:08 | New Function | 0 |
| 1281 | CoCoALib | | High | Factor of multivariate sometimes prints ERROR | | 21 Jan 2024 20:03 | Maths Bugs | 10 |
| 837 | CoCoALib | | Normal | factor is very slow on some simple input polynomials | | 06 Jan 2016 14:40 | Improving | 0 |
| 906 | CoCoALib | | Normal | External libraries: keep copy of compatible versions? | | 13 Jul 2016 11:19 | Portability | 0 |
| 1482 | CoCoALib | | Normal | Extended rationals: PlusInfinity and MinusInfinity | | 16 Feb 2024 18:02 | New Function | 10 |
| 738 | CoCoALib | | Normal | Extend homomorphism to polynomial ring | | 25 Jun 2015 17:23 | New Function | 10 |
| 1227 | CoCoALib | | Normal | exgcd; solve Bezout equation | | 29 Aug 2019 14:55 | New Function | 0 |
| 1306 | CoCoALib | | Normal | exgcd over integers (ZZ) | | 08 Mar 2024 17:57 | New Function | 20 |
| 725 | CoCoALib | | Normal | Example database: Slow ideal equality test | | 10 Jun 2015 14:24 | Various | 0 |
| 972 | CoCoALib | | Normal | ex-PolyIterator | | 17 Nov 2016 13:21 | Documentation | 0 |
| 308 | CoCoALib | | High | Error: ERR::NotNonZero instead of ERR::ZeroRingElem? | | 27 Mar 2024 17:37 | Renaming | 40 |
| 427 | CoCoALib | | Normal | Error names and error messages (current design) | | 11 May 2017 10:57 | Data Structures | 10 |
| 582 | CoCoALib | | Normal | Error codes: use same code for "not poly ring" and "not elem poly ring" | | 26 Mar 2024 14:36 | Tidying | 30 |
| 1807 | CoCoALib | | Normal | Error codes: "Not..." for "blah must be ..." -- change prefix | | 26 Mar 2024 14:22 | Renaming | 0 |
| 92 | CoCoALib | | Normal | Error Codes | | 19 Apr 2017 08:31 | Various | 0 |
| 1814 | CoCoALib | | Normal | Ensure tests do not need too much RAM | | 23 Apr 2024 22:14 | Safety | 30 |
| 1588 | CoCoALib | | Low | ElimMat is slow | | 22 Mar 2024 09:29 | Improving | 0 |
| 277 | CoCoALib | | Normal | Eliminate class RefPPMonoidElem? | | 01 Aug 2014 08:59 | | 0 |
| 547 | CoCoALib | | Normal | elim using RingTwinFloat triggers error "SERIOUS" | | 15 Jun 2016 14:35 | Various | 0 |
| 442 | CoCoALib | | Normal | Eigenvectors | | 09 Jul 2014 18:05 | New Function | 0 |
| 1419 | CoCoALib | | Low | DynamicBitset::lamAll1s | | 03 Feb 2021 18:18 | Improving | 0 |
| 1812 | CoCoALib | | Normal | Documentation: indexXX.html should be recompiled if version has changed | | 29 Mar 2024 10:37 | Documentation | 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 |
| 1672 | CoCoALib | | Normal | Documentation: a good model to follow? | | 16 Feb 2024 09:33 | Documentation | 0 |
| 1510 | CoCoALib | | Normal | Documentation for SparsePolyOps? | | 18 Mar 2024 09:45 | Documentation | 30 |
| 569 | CoCoALib | | Normal | Documentation for ReductionCog | | 11 Jun 2014 16:04 | Documentation | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|----------|-------------------|-----------------|--------|
| 231 | CoCoALib | | Normal | Documentation for QBGenerator needs to be improved. | | 09 Jul 2014 18:06 | Documentation | 0 |
| 1611 | CoCoALib | | Normal | Documentation for PrimaryDecomposition | | 16 Feb 2024 09:42 | Documentation | 0 |
| 1497 | CoCoALib | | Normal | Doc for normaliz fns | | 08 Mar 2023 19:40 | Documentation | 0 |
| 1561 | CoCoALib | | High | Doc for module term orderings | | 08 Mar 2024 17:38 | Documentation | 0 |
| 884 | CoCoALib | | Normal | DistrMPolyInIPP::myPushFront and DistrMPolyInIPP::myPushBack inefficient if arg is a PP | | 24 May 2016 15:25 | Improving | 0 |
| 838 | CoCoALib | | Normal | Differential algebra | | 24 Oct 2016 15:32 | New Function | 10 |
| 1600 | CoCoALib | | Normal | Detect updated versions of external libs | | 16 Feb 2024 10:02 | Safety | 10 |
| 130 | CoCoALib | | Normal | Design problem in ideals | | 13 May 2015 09:56 | Data Structures | 0 |
| 921 | CoCoALib | | Normal | Design GBMill | | 22 May 2017 14:11 | | 0 |
| 1428 | CoCoALib | | Normal | DenseMatrix: use template impl for ctors from vec-vec? | | 07 Mar 2024 20:49 | Tidying | 0 |
| 1559 | CoCoALib | | Normal | Default ctor for rings | | 13 Mar 2024 20:42 | Improving | 10 |
| 1098 | CoCoALib | | Normal | Ctors for exceptions/errors | | 06 Sep 2017 15:27 | Tidying | 0 |
| 1727 | CoCoALib | | Normal | Cruft in ExtLibs-Normaliz.C | | 13 Mar 2023 19:01 | Tidying | 0 |
| 778 | CoCoALib | | Normal | CRTMill::myAddInfo accept modulus 1 or not? | | 21 Mar 2016 15:16 | Tidying | 0 |
| 1378 | CoCoALib | | Normal | Create two separate radical fns (for 0-dim ideals) | | 03 Jul 2023 17:49 | Improving | 0 |
| 1213 | CoCoALib | | Normal | Create PolyOps-RingElem? | | 16 Feb 2024 09:48 | Tidying | 0 |
| 1792 | CoCoALib | | Normal | CpuTimeOut: arg of type ErrorContext? | | 18 Mar 2024 20:50 | Tidying | 0 |
| 161 | CoCoALib | | Normal | Convert old "task table" into redmine | | 07 Apr 2014 14:35 | Documentation | 0 |
| 1800 | CoCoALib | | Normal | Conversion from SmallPrime to UNSIGNED long? | | 15 Apr 2024 10:09 | Tidying | 10 |
| 1532 | CoCoALib | | Normal | Convenient RingHom pseudo-ctors | | 07 Mar 2024 21:34 | New Function | 10 |
| 134 | CoCoALib | | Normal | Convenience ring ctors and homs | | 11 Jul 2014 12:06 | New Function | 0 |
| 758 | CoCoALib | | Normal | configure: have option to say to look for external libs | | 03 Sep 2015 11:41 | Improving | 10 |
| 617 | CoCoALib | | Normal | configure: check all libraries for compatibility | | 09 Sep 2014 12:21 | Portability | 0 |
| 1798 | CoCoALib | | Normal | Computing in sub polyring | | 22 Mar 2024 09:30 | Improving | 0 |
| 628 | CoCoALib | | Normal | Complex twin-floats | | 22 Sep 2014 18:16 | New Function | 0 |
| 302 | CoCoALib | | Normal | Compilation on M\$Windows: Visual Studio | | 22 Mar 2024 23:13 | Portability | 60 |
| 1607 | CoCoALib | | Normal | Coding guidelines | | 16 Feb 2024 10:02 | Documentation | 0 |
| 1783 | CoCoALib | | Normal | Code & doc structure: one-big-file or many-small-files? | | 24 Feb 2024 18:34 | Tidying | 10 |
| 360 | CoCoALib | | Normal | CoCoAServer: what future, what issues? | | 28 Apr 2017 11:19 | Various | 0 |
| 1001 | CoCoALib | | Normal | CoCoALib: ideas for student projects | | 18 Feb 2022 16:57 | New Function | 10 |
| 769 | CoCoALib | | Normal | CoCoALib cone | | 27 Jan 2020 15:32 | Data Structures | 10 |
| 1736 | CoCoALib | | Normal | Clean TmpGOperations, and remove Tmp prefix | | 28 Apr 2023 16:01 | Tidying | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|----------|-------------------|-----------------|--------|
| 1609 | CoCoALib | | Low | Clean time.C | | 08 Mar 2023 19:54 | Tidying | 0 |
| 1799 | CoCoALib | | Normal | Clean out OLD CODE? | | 24 Mar 2024 10:52 | Tidying | 0 |
| 497 | CoCoALib | | Normal | Clang: automatic bug finding | | 04 Apr 2014 17:20 | Safety | 0 |
| 1632 | CoCoALib | | Normal | C++17: notes about updating | | 12 Nov 2021 18:11 | Portability | 0 |
| 1242 | CoCoALib | | Normal | C++14: Use type auto where appropriate | | 22 Apr 2024 21:08 | Tidying | 40 |
| 1346 | CoCoALib | | Normal | C++14: use the new for loop syntax where appropriate (like cocoa's foreach) | | 22 Apr 2024 21:08 | Improving | 80 |
| 1010 | CoCoALib | | Urgent | C++11: Mario's Hilbert scheme code | | 20 Feb 2017 13:19 | Portability | 0 |
| 326 | CoCoALib | | Normal | C++ nasty surprises | | 07 Apr 2014 18:13 | Portability | 10 |
| 1801 | CoCoALib | | Normal | BuildInfo | | 13 Apr 2024 22:18 | Tidying | 10 |
| 1670 | CoCoALib | | Normal | Build also dynamic/shared library for CoCoALib? | | 07 Mar 2024 21:33 | Portability | 0 |
| 146 | CoCoALib | | Normal | Buchberger-Moeller: input conversions | | 10 Jul 2014 14:17 | New Function | 0 |
| 873 | CoCoALib | | Normal | bool3: add some logical operations? | | 21 Jun 2016 14:37 | New Function | 10 |
| 729 | CoCoALib | | Normal | Betti numbers, betti diagram | | 14 Jun 2018 15:54 | Data Structures | 10 |
| 1513 | CoCoALib | | Normal | Better test for univariate-ness (and better conversion) | | 16 Mar 2024 21:38 | Improving | 0 |
| 1117 | CoCoALib | | Normal | Better printing of negative coeffs | | 23 Sep 2019 11:52 | Improving | 10 |
| 129 | CoCoALib | | Normal | Better GCD | | 09 Jul 2014 18:08 | New Function | 0 |
| 743 | CoCoALib | | Urgent | Better errors: give supplementary info about the error | | 15 Mar 2024 18:33 | Improving | 10 |
| 1584 | CoCoALib | | Normal | Benchmarks? | | 08 Mar 2023 19:41 | Documentation | 0 |
| 112 | CoCoALib | | Normal | automatic creation of all function signatures | | 07 Apr 2014 14:34 | Documentation | 0 |
| 246 | CoCoALib | | Normal | Approx QIR | | 04 Apr 2014 17:16 | New Function | 0 |
| 1730 | CoCoALib | | Normal | ApplySPRCodomain: relax power/exponent check | | 27 Nov 2023 20:30 | Improving | 0 |
| 420 | CoCoALib | | Normal | Allow user to give a name to a ring | | 13 May 2015 09:55 | Improving | 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 |
| 1339 | CoCoALib | | Normal | All PPs of given wdeg | | 16 Oct 2019 14:04 | New Function | 0 |
| 808 | CoCoALib | | Normal | Alg Extn by non-zero dim ideal | | 18 Nov 2015 23:29 | Tidying | 0 |
| 1468 | CoCoALib | | Normal | Adjoin indets to a poly ring | | 15 Feb 2024 22:45 | New Function | 10 |
| 740 | CoCoALib | | Normal | Addition of sparse (multivariate) polynomials | | 17 Jun 2016 14:35 | Improving | 0 |
| 400 | CoCoALib | | Normal | add myJMill member field to ideal | | 15 Sep 2014 12:04 | New Function | 0 |
| 1652 | CoCoALib | | Low | Add LM to cocoa lib ? | | 15 Feb 2024 22:41 | New Function | 10 |
| 1785 | CoCoALib | | Normal | Add function IsHomog3(l)? | | 01 Mar 2024 14:53 | New Function | 0 |
| 1784 | CoCoALib | | Normal | Add flag IhaveHomogGensValue for ideals in SparsePolyRing? | | 01 Mar 2024 14:36 | Data Structures | 0 |
| 315 | CoCoALib | | Normal | Add doc for ApproxPts2 | | 10 Jul 2014 16:23 | Documentation | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|-----------------|--------|
| 1797 | CoCoALib | | Normal | Add a function CleanupGens making some easy cleaning on the generators? | | 25 Mar 2024 19:16 | New Function | 0 |
| 678 | CoCoALib | | Normal | Accumulator (like a geobucket) | | 17 Nov 2016 19:03 | New Function | 20 |
| 1208 | CoCoALib | | Normal | New function: Threadsafe RandomLinearForm (CoCoALib) | | 01 Oct 2019 11:28 | Safety | 0 |
| 1207 | CoCoALib | | Normal | New function: SubmoduleOfGBasis | | 18 Mar 2024 09:33 | New Function | 0 |
| 550 | CoCoALib | | Normal | add myResolution member field to ideal and (sub)module | | 13 May 2015 09:57 | Data Structures | 0 |
| 624 | CoCoALib | | Normal | Wikipedia | Anna Maria Bigatti | 06 Nov 2017 13:40 | Documentation | 0 |
| 1096 | CoCoALib | | Low | WEB SITE: HTML is not clean! | Anna Maria Bigatti | 31 Aug 2017 10:05 | Documentation | 0 |
| 1662 | CoCoALib | | Normal | txt2tags: problem with filenames containing "_" or "-" | Anna Maria Bigatti | 09 Apr 2024 14:21 | Documentation | 80 |
| 598 | CoCoALib | | Normal | Syzygy for modules: non-homogeneous module | Anna Maria Bigatti | 27 Mar 2024 17:31 | Improving | 40 |
| 1704 | CoCoALib | | Normal | Symlink directory for external files needed by CoCoA-5 | Anna Maria Bigatti | 18 Mar 2024 09:29 | Tidying | 0 |
| 316 | CoCoALib | | Normal | submodule constructor different from ideal | Anna Maria Bigatti | 10 Jul 2014 16:21 | Tidying | 0 |
| 1057 | CoCoALib | | High | Slug: Polynomial ring constructor slow with (big) matrix ordering | Anna Maria Bigatti | 22 Mar 2024 09:31 | Improving | 50 |
| 1070 | CoCoALib | | Normal | Slug: MakeTermOrd (rk calls in RemoveRedundantRows) | Anna Maria Bigatti | 17 May 2017 13:47 | Improving | 10 |
| 777 | CoCoALib | | Normal | SLUG: elimination | Anna Maria Bigatti | 22 Mar 2024 18:12 | Improving | 10 |
| 1094 | CoCoALib | | Normal | Revive code for SelfSaturating GBasis | Anna Maria Bigatti | 22 Mar 2024 14:38 | New Function | 50 |
| 1422 | CoCoALib | | Normal | Remove flag IhaveGBasisValue? | Anna Maria Bigatti | 16 Feb 2024 17:56 | Data Structures | 10 |
| 1687 | CoCoALib | | Normal | Release CoCoALib 0.99850 | Anna Maria Bigatti | 29 Mar 2024 10:42 | Various | 50 |
| 26 | CoCoALib | | High | Redmine Administration | Anna Maria Bigatti | 23 Feb 2024 10:59 | Documentation | 80 |
| 913 | CoCoALib | | Normal | Read input from SymbolicData database | Anna Maria Bigatti | 02 Aug 2016 10:55 | New Function | 0 |
| 1417 | CoCoALib | | Normal | RadicalZeroDim with extra parameter for GBasis timeout | Anna Maria Bigatti | 16 Mar 2024 21:42 | Improving | 20 |
| 1103 | CoCoALib | | Normal | Pseudo-zero-dim ideals | Anna Maria Bigatti | 05 Nov 2021 16:09 | Improving | 30 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|---------------|--------|
| 1337 | CoCoALib | | Normal | PrimaryDecomposition: a interesting/pathological example | Anna Maria Bigatti | 08 Mar 2023 21:13 | Improving | 10 |
| 196 | CoCoALib | | Normal | PPWithMask needs checking | Anna Maria Bigatti | 04 Apr 2014 17:50 | Documentation | 0 |
| 1394 | CoCoALib | | Low | Oddly slow GBasis computation (slow final cleanup) | Anna Maria Bigatti | 16 Apr 2024 22:46 | Improving | 70 |
| 958 | CoCoALib | | Normal | New function: multiplicity and dim | Anna Maria Bigatti | 08 Mar 2024 18:15 | New Function | 80 |
| 1254 | CoCoALib | | Normal | New function: MinPoly for pseudo-zero-dimensional ideals | Anna Maria Bigatti | 07 Mar 2024 20:25 | New Function | 0 |
| 949 | CoCoALib | | Normal | New function: IdealWithIncrementalGBasis(l, f) | Anna Maria Bigatti | 16 Feb 2024 18:03 | New Function | 0 |
| 898 | CoCoALib | | High | New function: cardinality of finite field? | Anna Maria Bigatti | 08 Mar 2024 17:45 | New Function | 20 |
| 1808 | CoCoALib | | Normal | New constructor for PolyRing with elimination ordering | Anna Maria Bigatti | 28 Mar 2024 07:35 | New Function | 10 |
| 1796 | CoCoALib | | Normal | myFinalizeGBasis ("Final clean up") should be more flexible | Anna Maria Bigatti | 22 Mar 2024 16:19 | Improving | 30 |
| 686 | CoCoALib | | Normal | myAddMul in poly rings | Anna Maria Bigatti | 20 Apr 2015 13:22 | Tidying | 20 |
| 409 | CoCoALib | | High | Minimal syzygies (optimized implementation) | Anna Maria Bigatti | 31 Jul 2014 12:36 | New Function | 0 |
| 1740 | CoCoALib | | High | MinGens gives non minimal gens *if some deg=0* | Anna Maria Bigatti | 22 Mar 2024 18:04 | Maths Bugs | 30 |
| 1742 | CoCoALib | | Normal | MinGens could be faster | Anna Maria Bigatti | 18 May 2023 13:44 | Improving | 10 |
| 707 | CoCoALib | | Normal | MatrixOrderingMod32749Impl: test and write documentation! | Anna Maria Bigatti | 25 Apr 2024 21:46 | Safety | 50 |
| 1809 | CoCoALib | | Normal | Make ex-syz.C | Anna Maria Bigatti | 28 Mar 2024 08:45 | Documentation | 10 |
| 1782 | CoCoALib | | Normal | Make CoCoALib test file for radical | Anna Maria Bigatti | 01 Mar 2024 09:44 | Tidying | 0 |
| 937 | CoCoALib | | Normal | LinDepMill: Mill for linear dependencies | Anna Maria Bigatti | 18 Apr 2024 16:38 | New Function | 10 |
| 1571 | CoCoALib | | Normal | ker_H needs care | Anna Maria Bigatti | 16 Feb 2024 17:49 | Maths Bugs | 10 |
| 1803 | CoCoALib | | Normal | Improve trivial operations with ideal whose GBasis is [1] | Anna Maria Bigatti | 25 Mar 2024 19:06 | | 0 |
| 967 | CoCoALib | | Normal | Improve saturate | Anna Maria Bigatti | 22 Mar 2024 10:18 | Improving | 70 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|-----------|---|--------------------|-------------------|-----------------|--------|
| 1743 | CoCoALib | | Normal | Implement Truncated GBases for homogeneous input | Anna Maria Bigatti | 19 May 2023 15:42 | New Function | 0 |
| 589 | CoCoALib | | Normal | Implement gin (generic initial ideal) in cocoalib | Anna Maria Bigatti | 15 Jul 2014 18:17 | New Function | 0 |
| 1744 | CoCoALib | | Normal | Implement GBMill (aka Groebner Framework) | Anna Maria Bigatti | 25 May 2023 14:30 | Data Structures | 10 |
| 387 | CoCoALib | | High | implement algorithm(s) for resolutions | Anna Maria Bigatti | 30 Jul 2014 17:04 | New Function | 0 |
| 813 | CoCoALib | | Immediate | Implement "elim" in CoCoALib | Anna Maria Bigatti | 18 Mar 2024 15:58 | New Function | 90 |
| 1737 | CoCoALib | | Normal | Homogenization of an ideal with ZZ ¹ -grading | Anna Maria Bigatti | 01 Feb 2024 19:59 | Improving | 20 |
| 1433 | CoCoALib | | Normal | HilbertDriven Buchberger Algorithm | Anna Maria Bigatti | 16 Feb 2024 18:02 | New Function | 0 |
| 780 | CoCoALib | | Normal | GroebnerFan/ExternalLib-GFan: improve package | Anna Maria Bigatti | 21 Apr 2017 11:06 | Improving | 20 |
| 1441 | CoCoALib | | Normal | GFan: port CoCoA_5 functions into CoCoALib | Anna Maria Bigatti | 16 Feb 2024 17:54 | New Function | 0 |
| 924 | CoCoALib | | Normal | FlagManager for bool/bool3 flags | Anna Maria Bigatti | 16 Feb 2024 17:57 | Data Structures | 50 |
| 809 | CoCoALib | | Normal | FastCmp for degree -- useful? | Anna Maria Bigatti | 27 Nov 2015 16:06 | Tidying | 0 |
| 765 | CoCoALib | | Normal | ExternalLib-CDD: (needed by GFan) | Anna Maria Bigatti | 11 Sep 2019 13:47 | Portability | 10 |
| 205 | CoCoALib | | Normal | Example for change of coordinates with coeffs in a matrix | Anna Maria Bigatti | 14 Jul 2014 14:39 | Documentation | 0 |
| 313 | CoCoALib | | High | Elim(vector<long>) as PPOrderingCtor | Anna Maria Bigatti | 22 Mar 2024 18:17 | New Function | 30 |
| 1575 | CoCoALib | | Normal | DynamicBitset missing arg checks | Anna Maria Bigatti | 16 Feb 2024 09:46 | Safety | 0 |
| 505 | CoCoALib | | Normal | Documentation: write doc for RingDenseUPolyClean | Anna Maria Bigatti | 21 Sep 2016 17:15 | Documentation | 0 |
| 1066 | CoCoALib | | Normal | Documentation: translation table | Anna Maria Bigatti | 08 Mar 2024 18:16 | Documentation | 30 |
| 1720 | CoCoALib | | Normal | DivAlg in CoCoALib | Anna Maria Bigatti | 25 Mar 2024 17:55 | Tidying | 20 |
| 1711 | CoCoALib | | Normal | Development releases? | Anna Maria Bigatti | 09 Mar 2023 20:56 | Various | 90 |
| 676 | CoCoALib | | Normal | Credits to CoCoALib contributors | Anna Maria Bigatti | 28 Apr 2017 11:06 | Documentation | 10 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|-----------------|--------|
| 1665 | CoCoALib | | Normal | Compilation on Windows: problems for normaliz | Anna Maria Bigatti | 18 Mar 2024 09:27 | Documentation | 0 |
| 1775 | CoCoALib | | Normal | CoCoALib releases on redmine | Anna Maria Bigatti | 03 May 2024 07:32 | Documentation | 70 |
| 849 | CoCoALib | | Normal | Cleanup MinPoly code | Anna Maria Bigatti | 08 Mar 2024 18:15 | Tidying | 10 |
| 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 |
| 1179 | CoCoALib | | Normal | Clean up SparsePolyOps-MonomialIdeals | Anna Maria Bigatti | 22 Mar 2024 09:33 | Tidying | 20 |
| 791 | CoCoALib | | Normal | Clean code for DistrMPolyClean | Anna Maria Bigatti | 02 Nov 2015 22:13 | Tidying | 0 |
| 1132 | CoCoALib | | Normal | Canonical homomorphism for (some) polynomial rings? | Anna Maria Bigatti | 08 Mar 2024 18:01 | New Function | 0 |
| 386 | CoCoALib | | High | add resolution data type | Anna Maria Bigatti | 11 Jun 2015 14:58 | New Function | 10 |
| 1786 | CoCoALib | | Normal | Add new function for IsInRadical for monomial ideals? (RadicalMembership) | Anna Maria Bigatti | 01 Mar 2024 18:37 | Improving | 10 |
| 399 | CoCoALib | | High | add myHilbertSeries member field to ideal and (sub)module | Anna Maria Bigatti | 30 Jul 2014 17:04 | New Function | 0 |
| 703 | CoCoALib | | Normal | Add more operations between modules (CoCoALib) | Anna Maria Bigatti | 27 Oct 2017 11:53 | New Function | 10 |
| 799 | CoCoALib | | Low | vector of "indets" in each PPMonoid? | John Abbott | 11 Nov 2015 13:47 | Improving | 20 |
| 1572 | CoCoALib | | Normal | Use noexcept | John Abbott | 23 Apr 2024 21:57 | Improving | 70 |
| 1804 | CoCoALib | | Normal | Use long long (at least sometimes)? | John Abbott | 26 Apr 2024 21:09 | Portability | 80 |
| 1263 | CoCoALib | | Normal | Tidy CoCoALib test directory | John Abbott | 07 Mar 2023 20:49 | Tidying | 80 |
| 1703 | CoCoALib | | Normal | Threadsafty, multithreading: optional fn arg (or separate fn) | John Abbott | 07 Mar 2024 20:04 | Safety | 80 |
| 894 | CoCoALib | | Normal | strict enum types: C++11 extension | John Abbott | 25 Apr 2024 21:49 | Safety | 30 |
| 6 | CoCoALib | | High | Sort out RingElem, RefRingElem, ConstRefRingElem mess | John Abbott | 01 Aug 2014 08:59 | | 0 |
| 797 | CoCoALib | | Normal | SmallFpImpl: make it faster | John Abbott | 24 Apr 2024 23:04 | Improving | 20 |
| 1125 | CoCoALib | | Normal | Separate install script for CoCoALib? | John Abbott | 23 Jan 2024 21:54 | Tidying | 0 |
| 933 | CoCoALib | | Normal | Separate configure scripts for CoCoALib and CoCoA-5 | John Abbott | 23 Jan 2024 21:52 | Portability | 10 |
| 383 | CoCoALib | | Normal | Resolution/morse: integrate Mario Albert's code into CoCoALib | John Abbott | 31 Jul 2014 14:57 | New Function | 60 |
| 620 | CoCoALib | | Normal | Redesign CRTMill | John Abbott | 21 Mar 2016 14:30 | New Function | 20 |
| 1705 | CoCoALib | | Normal | ProgressReporter: prepare for new loop? | John Abbott | 25 Apr 2024 21:40 | Improving | 80 |
| 396 | CoCoALib | | Normal | PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem? | John Abbott | 13 May 2015 09:57 | Data Structures | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|-----------|---|-------------|-------------------|-----------------|--------|
| 440 | CoCoALib | | High | Port RealRoots to C++ | John Abbott | 19 Oct 2016 10:26 | New Function | 0 |
| 1115 | CoCoALib | | Normal | New class: exterior algebra | John Abbott | 31 Jan 2024 21:59 | Data Structures | 20 |
| 353 | CoCoALib | | Normal | Missing documentation and tests for myRecvTwinFloat | John Abbott | 14 Jul 2014 14:40 | Documentation | 0 |
| 125 | CoCoALib | | Normal | Matrix equation solving; linear system solving | John Abbott | 18 Mar 2024 10:00 | New Function | 50 |
| 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 |
| 872 | CoCoALib | | Urgent | LinSolve for matrices over FFp | John Abbott | 08 Mar 2024 17:36 | Improving | 30 |
| 1748 | CoCoALib | | Normal | July 2023 | John Abbott | 08 Mar 2024 08:29 | Various | 0 |
| 1787 | CoCoALib | | Normal | Iterator design: compatible with C++STL? Advancing beyond end? | John Abbott | 23 Apr 2024 22:26 | Tidying | 30 |
| 1197 | CoCoALib | | Normal | IsZeroDet: new fn | John Abbott | 08 Mar 2024 17:58 | New Function | 40 |
| 846 | CoCoALib | | Normal | IsIrred: correct design? | John Abbott | 26 Feb 2019 16:32 | Improving | 20 |
| 1683 | CoCoALib | | Immediate | IsIrred in ZZ[x,y] | John Abbott | 16 Feb 2024 09:39 | Improving | 0 |
| 575 | CoCoALib | | Normal | Investigate using cmake for configuration | John Abbott | 13 Mar 2024 21:19 | Portability | 10 |
| 752 | CoCoALib | | Normal | Investigate using Boost.build instead of make | John Abbott | 28 Apr 2017 11:23 | Portability | 0 |
| 1089 | CoCoALib | | Normal | invalid pointer in "free" | John Abbott | 20 Jul 2017 13:06 | Various | 10 |
| 113 | CoCoALib | | Normal | Introduce PartialHom | John Abbott | 09 Jul 2014 18:04 | New Function | 10 |
| 1176 | CoCoALib | | Normal | interval arithmetic | John Abbott | 10 Mar 2023 17:46 | New Function | 50 |
| 1642 | CoCoALib | | Normal | interreduce: make monic if over finite field? | John Abbott | 16 Feb 2024 20:44 | Improving | 20 |
| 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 |
| 1750 | CoCoALib | | Normal | IdealOfPoints: allow duplicate points? | John Abbott | 08 Mar 2024 18:23 | Improving | 20 |
| 565 | CoCoALib | | Normal | FloatApprox for TwinFloat values? | John Abbott | 19 Jul 2016 22:44 | New Function | 20 |
| 1733 | CoCoALib | | Low | FactorINT: funny order | John Abbott | 22 Apr 2024 19:51 | Improving | 60 |
| 874 | CoCoALib | | Normal | factor: too slow on largish multivariate poly | John Abbott | 26 Feb 2019 16:29 | Improving | 20 |
| 1233 | CoCoALib | | High | factor SEGV -- too large characteristic | John Abbott | 14 Mar 2023 19:45 | Maths Bugs | 60 |
| 818 | CoCoALib | | Normal | F5 with 3 args? | John Abbott | 24 Nov 2015 10:11 | Tidying | 10 |
| 802 | CoCoALib | | Urgent | DivMask: extend interface? | John Abbott | 08 Mar 2024 17:36 | New Function | 50 |
| 680 | CoCoALib | | Normal | DistrMPolyClean does not use MemPool for summands? | John Abbott | 07 Mar 2023 20:49 | Tidying | 70 |
| 1280 | CoCoALib | | High | Determinant & Inverse of matrix over non integral domain | John Abbott | 21 Jan 2024 19:43 | Improving | 40 |
| 385 | CoCoALib | | Urgent | Design new errors using inheritance | John Abbott | 09 Feb 2024 10:25 | Tidying | 40 |
| 1756 | CoCoALib | | Normal | deg(f) is slow if f is long | John Abbott | 21 Mar 2024 20:40 | Improving | 50 |
| 127 | CoCoALib | | Normal | Convert DUPFF code to C++ | John Abbott | 28 Sep 2022 15:04 | New Function | 50 |
| 1576 | CoCoALib | | Normal | cmp for machine integers | John Abbott | 21 Jan 2024 20:23 | Improving | 20 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|--|----------|---|-------------|-------------------|--------------|--------|
| 1160 | CoCoALib | | Normal | Clean up revised RatReconstructByContFrac code | John Abbott | 26 Feb 2019 16:33 | Tidying | 0 |
| 1811 | CoCoALib | | Normal | Check include guards | John Abbott | 22 Apr 2024 20:15 | Tidying | 90 |
| 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 |
| 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 |
| 143 | CoCoALib | | Urgent | Buchberger-Moeller (parent task) | John Abbott | 10 Jul 2014 14:16 | New Function | 38 |