

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|-----------------|--------|
| 1815 | CoCoALib | | Normal | JSON and UUID | | 02 May 2024 19:58 | New Function | 10 |
| 1809 | CoCoALib | | Normal | Make ex-syz.C | Anna Maria Bigatti | 28 Mar 2024 08:45 | Documentation | 10 |
| 1808 | CoCoALib | | Normal | New constructor for PolyRing with elimination ordering | Anna Maria Bigatti | 28 Mar 2024 07:35 | New Function | 10 |
| 1803 | CoCoALib | | Normal | Improve trivial operations with ideal whose GBasis is [1] | Anna Maria Bigatti | 25 Mar 2024 19:06 | | 0 |
| 1797 | CoCoALib | | Normal | Add a function CleanupGens making some easy cleaning on the generators? | | 25 Mar 2024 19:16 | New Function | 0 |
| 1793 | CoCoALib | | Normal | Use ErrorContext instead of string FnName | | 26 Mar 2024 11:50 | Improving | 60 |
| 1788 | CoCoALib | | Normal | New MatrixView/function "FirstRows/FirstCols"? | Anna Maria Bigatti | 20 Mar 2024 15:53 | New Function | 100 |
| 1786 | CoCoALib | | Normal | Add new function for IsInRadical for monomial ideals? (RadicalMembership) | Anna Maria Bigatti | 01 Mar 2024 18:37 | Improving | 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 |
| 1780 | CoCoALib | | Normal | radical for ideals in SparsePolyRing: code in C++ | Anna Maria Bigatti | 22 Mar 2024 09:13 | New Function | 100 |
| 1778 | CoCoALib | | Normal | Homogenizer | | 09 May 2024 20:58 | New Function | 10 |
| 1770 | CoCoALib | | Normal | Evaluate polynomial function/class | John Abbott | 16 Mar 2024 21:52 | New Function | 100 |
| 1763 | CoCoALib | | Normal | implement ideal(R) for zero ideal, with no generators? | Anna Maria Bigatti | 16 Feb 2024 18:01 | New Function | 100 |
| 1755 | CoCoALib | | High | CheckForInterrupt: give more info? | John Abbott | 22 Dec 2023 20:56 | Improving | 100 |
| 1748 | CoCoALib | | Normal | July 2023 | John Abbott | 08 Mar 2024 08:29 | Various | 0 |
| 1743 | CoCoALib | | Normal | Implement Truncated GBases for homogeneous input | Anna Maria Bigatti | 19 May 2023 15:42 | New Function | 0 |
| 1742 | CoCoALib | | Normal | MinGens could be faster | Anna Maria Bigatti | 18 May 2023 13:44 | Improving | 10 |
| 1723 | CoCoALib | | Normal | New fn CoprimePart, OddPart: naming question | John Abbott | 07 Mar 2023 20:27 | New Function | 100 |
| 1715 | CoCoALib | | Low | ProductBigInt (also ProductBigRat???) | | 23 Jan 2024 22:14 | New Function | 0 |
| 1706 | CoCoALib | | Normal | slimgb: Brickenstein, singular | | 30 Oct 2022 20:30 | Improving | 0 |
| 1702 | CoCoALib | | Low | Use C++ attributes | | 22 Apr 2024 21:26 | Tidying | 10 |
| 1694 | CoCoALib | | Normal | New expv/exponents function? | John Abbott | 09 Mar 2023 21:48 | New Function | 100 |
| 1692 | CoCoALib | | Normal | Suggestion: Add "JumpTo" function to prime iterators | | 15 Feb 2024 22:39 | Improving | 10 |
| 1684 | CoCoALib | | Normal | RandomNBitPrime - new fn | John Abbott | 08 Aug 2022 20:08 | New Function | 100 |
| 1676 | CoCoALib | | Normal | txt2tags: include in source distribution? | John Abbott | 04 Nov 2022 14:31 | Documentation | 100 |
| 1670 | CoCoALib | | Normal | Build also dynamic/shared library for CoCoALib? | | 07 Mar 2024 21:33 | Portability | 0 |
| 1668 | CoCoALib | | Normal | Generalize prim | | 31 Jan 2024 22:03 | Improving | 0 |
| 1667 | CoCoALib | | Urgent | GBasis over ZZ: port to CoCoALib | | 09 May 2024 20:46 | Improving | 10 |
| 1657 | CoCoALib | | Normal | Improve CertifyNotPower | | 31 Jan 2024 22:03 | Improving | 0 |

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| 1654 | CoCoALib | | Normal | New function IsInSymbols | | 12 May 2023 08:03 | | 0 |
| 1652 | CoCoALib | | Low | Add LM to cocoalib ? | | 15 Feb 2024 22:41 | New Function | 10 |
| 1645 | CoCoALib | | Normal | Implement monic0(f) for the case monic(0)? | | 16 Feb 2024 09:38 | Improving | 10 |
| 1637 | CoCoALib | | Low | Intersection of Ideals: has GBasis? | | 16 Feb 2024 17:25 | Improving | 0 |
| 1635 | CoCoALib | | Normal | NR for polys with coeffs in PID | | 16 Feb 2024 09:39 | New Function | 10 |
| 1633 | CoCoALib | | Normal | Make polynomial multiplication interruptible? | John Abbott | 04 Feb 2022 21:24 | Improving | 100 |
| 1619 | CoCoALib | | Normal | Make saturate available in CoCoALib | Anna Maria Bigatti | 22 Mar 2024 10:14 | New Function | 100 |
| 1602 | CoCoALib | | Low | Sparse matrix (SparseMat) | | 15 Feb 2024 22:42 | New Function | 0 |
| 1598 | CoCoALib | | Normal | RingHom: implement phi(X) as apply(phi, X) also for X vector and matrix | Anna Maria Bigatti | 18 Feb 2022 15:24 | Improving | 100 |
| 1589 | CoCoALib | | Normal | IdealOfPoints: allow matrix of points to be defined over "wrong" ring | Anna Maria Bigatti | 04 Feb 2022 22:07 | Improving | 100 |
| 1582 | CoCoALib | | Normal | Factorization in K(a,b)[x,y] | | 07 Mar 2024 20:23 | Improving | 0 |
| 1580 | CoCoALib | | Normal | New fn prim for polys | John Abbott | 16 Feb 2022 20:45 | New Function | 100 |
| 1559 | CoCoALib | | Normal | Default ctor for rings | | 13 Mar 2024 20:42 | Improving | 10 |
| 1532 | CoCoALib | | Normal | Convenient RingHom pseudo-ctors | | 07 Mar 2024 21:34 | New Function | 10 |
| 1513 | CoCoALib | | Normal | Better test for univariate-ness (and better conversion) | | 16 Mar 2024 21:38 | Improving | 0 |
| 1492 | CoCoALib | | Low | submat of a submat | | 16 Feb 2024 17:28 | Improving | 0 |
| 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 |
| 1485 | CoCoALib | | Normal | Simple syntax for making a quotient ring? | | 08 Mar 2023 19:51 | Improving | 0 |
| 1483 | CoCoALib | | Normal | IsPowerOf2 for rationals | John Abbott | 26 Oct 2020 21:38 | New Function | 100 |
| 1482 | CoCoALib | | Normal | Extended rationals: PlusInfinity and MinusInfinity | | 16 Feb 2024 18:02 | New Function | 10 |
| 1472 | CoCoALib | | Low | Idea for for loops | | 16 Feb 2024 09:55 | New Function | 10 |
| 1470 | CoCoALib | | Normal | Get indexed indets from a polyring | | 07 Mar 2024 20:36 | New Function | 0 |
| 1468 | CoCoALib | | Normal | Adjoin indets to a poly ring | | 15 Feb 2024 22:45 | New Function | 10 |
| 1466 | CoCoALib | | Normal | Ops += *= etc for Matrices? | John Abbott | 08 Aug 2022 20:01 | Improving | 100 |
| 1457 | CoCoALib | | Normal | Make SmoothFactor interruptible | John Abbott | 26 Oct 2020 21:37 | Improving | 100 |
| 1444 | CoCoALib | | Normal | HNF: Hermite Normal Form | | 16 Feb 2024 09:53 | New Function | 0 |
| 1441 | CoCoALib | | Normal | GFan: port CoCoA_5 functions into CoCoALib | Anna Maria Bigatti | 16 Feb 2024 17:54 | New Function | 0 |
| 1437 | CoCoALib | | Normal | Filling matrix row/col from a vector | | 15 Feb 2024 22:46 | New Function | 0 |
| 1436 | CoCoALib | | Low | Flatten for a matrix | John Abbott | 29 Oct 2020 21:36 | New Function | 100 |
| 1434 | CoCoALib | | Normal | GBasisByHomog for DegLex | Anna Maria Bigatti | 06 Mar 2020 17:41 | Improving | 100 |
| 1433 | CoCoALib | | Normal | HilbertDriven Buchberger Algorithm | Anna Maria Bigatti | 16 Feb 2024 18:02 | New Function | 0 |

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| 1427 | CoCoALib | | Normal | New function: LawrenceMat | Anna Maria Bigatti | 06 Mar 2020 16:35 | New Function | 100 |
| 1419 | CoCoALib | | Low | DynamicBitset::lamAll1s | | 03 Feb 2021 18:18 | Improving | 0 |
| 1417 | CoCoALib | | Normal | RadicalZeroDim with extra parameter for GBasis timeout | Anna Maria Bigatti | 16 Mar 2024 21:42 | Improving | 20 |
| 1405 | CoCoALib | | Normal | New fn: interreduction | John Abbott | 07 Mar 2022 10:07 | New Function | 100 |
| 1395 | CoCoALib | | Normal | SHA checksum for released code | John Abbott | 09 Oct 2020 14:12 | Safety | 100 |
| 1388 | CoCoALib | | Normal | GlobalManager: create SignalWatcher internally? | | 01 Mar 2024 09:49 | Safety | 0 |
| 1381 | CoCoALib | | Normal | Type ideal for ZZ[x[1..n]] | | 16 Feb 2024 09:47 | Data Structures | 10 |
| 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 |
| 1349 | CoCoALib | | Normal | ideal ctor where given gens are a gbasis | | 16 Feb 2024 09:52 | Improving | 10 |
| 1347 | CoCoALib | | Normal | New function: ctor of PPVector with vector<RingElem> | Anna Maria Bigatti | 29 Oct 2019 19:44 | Improving | 100 |
| 1339 | CoCoALib | | Normal | All PPs of given wdeg | | 16 Oct 2019 14:04 | New Function | 0 |
| 1332 | CoCoALib | | Normal | New function: vector of RingElem from string -- in CoCoALib | Anna Maria Bigatti | 29 Oct 2019 16:21 | New Function | 100 |
| 1330 | CoCoALib | | Normal | New syntax for NewQuotientRing | Anna Maria Bigatti | 15 Oct 2019 17:52 | Improving | 100 |
| 1329 | CoCoALib | | Normal | New syntax for creating homomorphisms (PolyAlgebraHom) | Anna Maria Bigatti | 09 Nov 2020 10:03 | Improving | 100 |
| 1323 | CoCoALib | | Normal | Improve RealRoots: compute sqfr decomp | | 30 Sep 2019 16:14 | Improving | 0 |
| 1306 | CoCoALib | | Normal | exgcd over integers (ZZ) | | 08 Mar 2024 17:57 | New Function | 20 |
| 1301 | CoCoALib | | Normal | New function primorial | John Abbott | 14 Oct 2019 15:10 | New Function | 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 |
| 1283 | CoCoALib | | Normal | Printing for (prime) finite fields | John Abbott | 10 Oct 2019 18:46 | Improving | 100 |
| 1282 | CoCoALib | | Normal | subresultant | | 08 Mar 2024 17:54 | New Function | 20 |
| 1278 | CoCoALib | | Normal | Port old "clever" code for matrix determinant over ZZ to CoCoALib | | 03 May 2019 11:42 | New Function | 0 |
| 1277 | CoCoALib | | Normal | Gaussian row reduction | John Abbott | 12 Feb 2020 15:26 | New Function | 100 |
| 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 |
| 1254 | CoCoALib | | Normal | New function: MinPoly for pseudo-zero-dimensional ideals | Anna Maria Bigatti | 07 Mar 2024 20:25 | New Function | 0 |
| 1251 | CoCoALib | | Normal | New function: radical for monomial ideal | Anna Maria Bigatti | 15 Oct 2019 15:29 | New Function | 100 |
| 1249 | CoCoALib | | Normal | principal ideal has a Gbasis | Anna Maria Bigatti | 10 Oct 2019 19:12 | Improving | 100 |
| 1235 | CoCoALib | | Normal | FreeModule: get canonical basis | Anna Maria Bigatti | 14 Feb 2022 18:25 | New Function | 100 |
| 1227 | CoCoALib | | Normal | exgcd; solve Bezout equation | | 29 Aug 2019 14:55 | New Function | 0 |
| 1219 | CoCoALib | | Normal | Frobby version number | | 08 Mar 2023 19:40 | Documentation | 10 |
| 1218 | CoCoALib | | Normal | 32-bit or 64-bit preprocessor macro? | John Abbott | 22 Apr 2024 20:21 | Tidying | 100 |

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| 1212 | CoCoALib | | Normal | New function: GBasisByHomog | Anna Maria Bigatti | 22 Mar 2024 14:32 | New Function | 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 |
| 1209 | CoCoALib | | High | New function: HasPositiveGrading | Anna Maria Bigatti | 03 Oct 2019 10:43 | New Function | 100 |
| 1207 | CoCoALib | | Normal | New function: SubmoduleOfGBasis | | 18 Mar 2024 09:33 | New Function | 0 |
| 1206 | CoCoALib | | Normal | syz, SyzOfGens: which shifts for zero? | Anna Maria Bigatti | 28 Mar 2024 10:15 | Maths Bugs | 100 |
| 1203 | CoCoALib | | Normal | factor over algebraic extensions | Anna Maria Bigatti | 31 Jul 2018 13:13 | Improving | 100 |
| 1198 | CoCoALib | | Normal | Non-standard DegRevLex (NonStdDegRevLex, WDegRevLex) | | 23 Sep 2019 12:44 | New Function | 0 |
| 1197 | CoCoALib | | Normal | IsZeroDet: new fn | John Abbott | 08 Mar 2024 17:58 | New Function | 40 |
| 1178 | CoCoALib | | Normal | New function: myPrimaryDecomposition_0dim | Anna Maria Bigatti | 03 Aug 2018 17:41 | New Function | 100 |
| 1176 | CoCoALib | | Normal | interval arithmetic | John Abbott | 10 Mar 2023 17:46 | New Function | 50 |
| 1173 | CoCoALib | | Normal | Upper bound for value of poly in an interval | | 04 Apr 2018 11:55 | New Function | 0 |
| 1169 | CoCoALib | | Normal | New function: RandomLinearForm (CoCoALib) | Anna Maria Bigatti | 02 Aug 2018 16:59 | New Function | 100 |
| 1167 | CoCoALib | | Normal | New class VerificationLevel | John Abbott | 02 Aug 2018 17:29 | New Function | 100 |
| 1158 | CoCoALib | | Normal | New function: MinPolyQuotHeuristic --> MinPolyQuot with VerificationLevel | Anna Maria Bigatti | 02 Aug 2018 16:42 | New Function | 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 |
| 1150 | CoCoALib | | Normal | New fn: transform ideal with ring hom | | 22 Jun 2020 10:34 | New Function | 0 |
| 1132 | CoCoALib | | Normal | Canonical homomorphism for (some) polynomial rings? | Anna Maria Bigatti | 08 Mar 2024 18:01 | New Function | 0 |
| 1131 | CoCoALib | | Normal | Sturm sequence | John Abbott | 03 Aug 2018 16:05 | New Function | 100 |
| 1126 | CoCoALib | | Normal | New function: SubmoduleOfMinGens | Anna Maria Bigatti | 02 Aug 2018 16:20 | New Function | 100 |
| 1117 | CoCoALib | | Normal | Better printing of negative coeffs | | 23 Sep 2019 11:52 | Improving | 10 |
| 1115 | CoCoALib | | Normal | New class: exterior algebra | John Abbott | 31 Jan 2024 21:59 | Data Structures | 20 |
| 1108 | CoCoALib | | Normal | New fn: IsCoprime (whenever gcd makes sense) | John Abbott | 06 Nov 2017 15:27 | New Function | 100 |
| 1103 | CoCoALib | | Normal | Pseudo-zero-dim ideals | Anna Maria Bigatti | 05 Nov 2021 16:09 | Improving | 30 |
| 1102 | CoCoALib | | Normal | Implement RootBound | John Abbott | 06 Nov 2017 15:50 | New Function | 100 |
| 1094 | CoCoALib | | Normal | Revive code for SelfSaturating GBasis | Anna Maria Bigatti | 22 Mar 2024 14:38 | New Function | 50 |
| 1090 | CoCoALib | | Normal | ExternalLib-MathSAT: first prototype | Anna Maria Bigatti | 19 Dec 2017 07:50 | New Function | 100 |
| 1053 | CoCoALib | | Normal | New function: IdealOfGBasis, IdealOfMinGens in CoCoALib | Anna Maria Bigatti | 20 Nov 2017 16:07 | New Function | 100 |
| 1052 | CoCoALib | | Normal | ReadExpr(P, string) and RingElem(P, string) in CoCoALib | Anna Maria Bigatti | 10 Nov 2017 12:34 | Improving | 100 |
| 1050 | CoCoALib | | Normal | ExternalLibs: function for getting info | John Abbott | 28 Apr 2017 23:17 | New Function | 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 |

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| 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 |
| 1022 | CoCoALib | | Normal | New "LF" function which is based on StdDeg | | 06 Mar 2017 19:37 | New Function | 20 |
| 1016 | CoCoALib | | Normal | ReducedGBasis for RingWeyl (and other non-commutative rings) | Anna Maria Bigatti | 28 Apr 2017 16:05 | Improving | 100 |
| 1010 | CoCoALib | | Urgent | C++11: Mario's Hilbert scheme code | | 20 Feb 2017 13:19 | Portability | 0 |
| 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 |
| 1001 | CoCoALib | | Normal | CoCoALib: ideas for student projects | | 18 Feb 2022 16:57 | New Function | 10 |
| 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 |
| 979 | CoCoALib | | Normal | SmallestNonDivisor -- new fn | John Abbott | 06 Nov 2017 15:12 | New Function | 100 |
| 974 | CoCoALib | | Normal | QIR/RealRootRefine: improve behaviour if input interval has "nasty" endpoints | | 01 Mar 2021 21:25 | Improving | 10 |
| 966 | CoCoALib | | Normal | New function or explain: first and last for a vector? | Anna Maria Bigatti | 14 Feb 2020 10:21 | Documentation | 100 |
| 962 | CoCoALib | | Normal | General verbose mode? | John Abbott | 08 Nov 2017 16:29 | Improving | 100 |
| 961 | CoCoALib | | Normal | New function: ReducedGBasis | Anna Maria Bigatti | 21 Apr 2017 17:08 | New Function | 100 |
| 958 | CoCoALib | | Normal | New function: multiplicity and dim | Anna Maria Bigatti | 08 Mar 2024 18:15 | New Function | 80 |
| 957 | CoCoALib | | Normal | New function: HasGBasis | Anna Maria Bigatti | 29 Apr 2017 08:32 | New Function | 100 |
| 955 | CoCoALib | | Normal | RandomUnimodularMat - random unimodular matrix (of integers) | John Abbott | 18 Nov 2016 22:39 | New Function | 100 |
| 951 | CoCoALib | | Normal | New function: IsSqFree | John Abbott | 18 Nov 2016 23:09 | New Function | 100 |
| 949 | CoCoALib | | Normal | New function: IdealWithIncrementalGBasis(l, f) | Anna Maria Bigatti | 16 Feb 2024 18:03 | New Function | 0 |
| 947 | CoCoALib | | Normal | IsRadical for ideal? | | 23 Jan 2024 22:13 | New Function | 10 |
| 937 | CoCoALib | | Normal | LinDepMill: Mill for linear dependencies | Anna Maria Bigatti | 18 Apr 2024 16:38 | New Function | 10 |
| 931 | CoCoALib | | Normal | GBasis verbose mode | Anna Maria Bigatti | 29 Apr 2017 08:36 | Improving | 100 |
| 923 | CoCoALib | | Normal | Fn to read symbol range (SymbolRange) | | 16 Sep 2016 15:04 | New Function | 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 |
| 913 | CoCoALib | | Normal | Read input from SymbolicData database | Anna Maria Bigatti | 02 Aug 2016 10:55 | New Function | 0 |
| 910 | CoCoALib | | Normal | BigRat: read from a string in "decimal" format? | John Abbott | 18 Nov 2016 22:37 | Improving | 100 |
| 904 | CoCoALib | | Normal | SmallFpDouble: which impl of InvMod to use? | | 04 Jul 2016 13:45 | Improving | 0 |
| 902 | CoCoALib | | Normal | New function: FrobeniusMat | Elisa Palezzato | 28 Apr 2017 09:31 | New Function | 100 |
| 901 | CoCoALib | | Normal | New function: PrimaryDecomposition0 in CoCoALib | Anna Maria Bigatti | 03 Aug 2018 17:40 | New Function | 100 |

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| 900 | CoCoALib | | Normal | New function: MinPoly of RingElem in quotient ring | Anna Maria Bigatti | 03 Aug 2018 17:31 | New Function | 100 |
| 899 | CoCoALib | | High | IsMaximal, IsPrimary for IDEAL (in cocoalib) | Anna Maria Bigatti | 25 Nov 2017 10:40 | New Function | 100 |
| 898 | CoCoALib | | High | New function: cardinality of finite field? | Anna Maria Bigatti | 08 Mar 2024 17:45 | New Function | 20 |
| 896 | CoCoALib | | Normal | myIsEqual, myCmp: direct comparisons between RingElem and MachineInt, BigInt and BigRat? | | 25 Jun 2018 15:31 | Improving | 10 |
| 889 | CoCoALib | | Normal | configure script: give summary of warnings at end | John Abbott | 28 Apr 2017 09:35 | Various | 100 |
| 885 | CoCoALib | | Normal | IsIrred3: fast 3-way irred test (returning bool3) | | 30 Apr 2019 17:19 | New Function | 10 |
| 873 | CoCoALib | | Normal | bool3: add some logical operations? | | 21 Jun 2016 14:37 | New Function | 10 |
| 872 | CoCoALib | | Urgent | LinSolve for matrices over FFp | John Abbott | 08 Mar 2024 17:36 | Improving | 30 |
| 869 | CoCoALib | | Normal | SmallFpImpl: different repr for computation and for storage? | | 22 Apr 2016 15:14 | Improving | 0 |
| 856 | CoCoALib | | Normal | MantissaAndExponent2 for twin-float | John Abbott | 28 Apr 2017 09:30 | New Function | 100 |
| 848 | CoCoALib | | Normal | Implement MinPoly in CoCoALib | Anna Maria Bigatti | 22 Mar 2016 18:02 | New Function | 100 |
| 840 | CoCoALib | | Normal | GINV: alex basis | | 31 Mar 2016 13:05 | New Function | 10 |
| 839 | CoCoALib | | Low | SparsePolyIter: make more compatible with STL | | 07 Mar 2024 20:01 | Improving | 10 |
| 838 | CoCoALib | | Normal | Differential algebra | | 24 Oct 2016 15:32 | New Function | 10 |
| 836 | CoCoALib | | Normal | SmallFpImpl: export fns for a fixed convention | John Abbott | 23 Mar 2016 15:10 | New Function | 100 |
| 835 | CoCoALib | | Normal | Make Mario's new code threadsafe | | 09 Dec 2015 16:48 | Safety | 0 |
| 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 |
| 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 |
| 813 | CoCoALib | | Immediate | Implement "elim" in CoCoALib | Anna Maria Bigatti | 18 Mar 2024 15:58 | New Function | 90 |
| 812 | CoCoALib | | Normal | PPMonoid pseudo-ctor without explicit ordering | | 24 Nov 2015 18:16 | New Function | 0 |
| 811 | CoCoALib | | Normal | Add new fn SimplestBinaryRatBetween | John Abbott | 23 Mar 2016 15:10 | New Function | 100 |
| 803 | CoCoALib | | Normal | PPOrdering: use it to compute WDeg? | | 06 Nov 2017 14:00 | New Function | 10 |
| 802 | CoCoALib | | Urgent | DivMask: extend interface? | John Abbott | 08 Mar 2024 17:36 | New Function | 50 |
| 801 | CoCoALib | | Normal | Test whether a symbol is in a ring | | 07 Mar 2024 21:36 | New Function | 0 |
| 800 | CoCoALib | | Urgent | PPMonoidSparse: impl of sparse PPs | John Abbott | 09 Mar 2023 22:15 | New Function | 100 |
| 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 |
| 780 | CoCoALib | | Normal | GroebnerFan/ExternalLib-GFan: improve package | Anna Maria Bigatti | 21 Apr 2017 11:06 | Improving | 20 |
| 775 | CoCoALib | | Low | PPMonoid with 1 extra "exponent"? | | 15 Sep 2015 20:18 | Improving | 0 |
| 765 | CoCoALib | | Normal | ExternalLib-CDD: (needed by GFan) | Anna Maria Bigatti | 11 Sep 2019 13:47 | Portability | 10 |

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| 762 | CoCoALib | | Normal | ExternalLib-GFan: first prototype | Anna Maria Bigatti | 24 Mar 2016 08:04 | New Function | 100 |
| 759 | CoCoALib | | Normal | Configuration: where to keep source for test compilations? | John Abbott | 08 Nov 2017 18:13 | Tidying | 100 |
| 758 | CoCoALib | | Normal | configure: have option to say to look for external libs | | 03 Sep 2015 11:41 | Improving | 10 |
| 747 | CoCoALib | | Normal | New function for making list of symbols (indeterminate names) | John Abbott | 01 Feb 2016 14:21 | Improving | 100 |
| 743 | CoCoALib | | Urgent | Better errors: give supplementary info about the error | | 15 Mar 2024 18:33 | Improving | 10 |
| 740 | CoCoALib | | Normal | Addition of sparse (multivariate) polynomials | | 17 Jun 2016 14:35 | Improving | 0 |
| 738 | CoCoALib | | Normal | Extend homomorphism to polynomial ring | | 25 Jun 2015 17:23 | New Function | 10 |
| 735 | CoCoALib | | Normal | Convert a PPMonoidElem to RingElem with coefficient one | Anna Maria Bigatti | 22 Mar 2016 17:59 | New Function | 100 |
| 730 | CoCoALib | | Normal | Stats in GBMill (GReductor) | Anna Maria Bigatti | 20 Nov 2017 16:12 | Improving | 100 |
| 729 | CoCoALib | | Normal | Betti numbers, betti diagram | | 14 Jun 2018 15:54 | Data Structures | 10 |
| 728 | CoCoALib | | Normal | Noncommutative algebra "of solvable type" | | 09 Jul 2015 08:39 | New Function | 10 |
| 721 | CoCoALib | | Normal | CheckForInterrupt: string arg to specify where it was called? | John Abbott | 01 Jul 2015 18:12 | Improving | 100 |
| 718 | CoCoALib | | Normal | Insert calls to CheckForInterrupt | Anna Maria Bigatti | 22 Apr 2024 21:35 | 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 |
| 690 | CoCoALib | | Normal | Fault tolerant rational reconstruction: implement simultaneous version | | 23 Apr 2015 19:12 | New Function | 0 |
| 689 | CoCoALib | | Normal | Fault tolerant rational reconstruction: make bad factor publicly accessible | John Abbott | 01 Jul 2015 18:04 | Improving | 100 |
| 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 |
| 678 | CoCoALib | | Normal | Accumulator (like a geobucket) | | 17 Nov 2016 19:03 | New Function | 20 |
| 667 | CoCoALib | | Normal | factor: multivariate + finite characteristic | | 04 Mar 2015 20:08 | New Function | 0 |
| 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 |
| 661 | CoCoALib | | Normal | Laurent polynomials | | 23 Jan 2015 13:50 | New Function | 0 |
| 658 | CoCoALib | | Urgent | Indets actually in a poly (or vector or matrix) | John Abbott | 13 Feb 2020 15:09 | New Function | 100 |
| 651 | CoCoALib | | Normal | Optimized algorithms for implicitization (slicing algorithm, elim, subalgebra..) | | 12 Feb 2015 10:33 | New Function | 10 |
| 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 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|-------------|----------|---|--------------------|-------------------|---------------|--------|
| 639 | CoCoALib | | Low | Shadow CoCoA namespace to help guarantee portability (without ambiguity) | | 28 Oct 2014 15:34 | Safety | 0 |
| 638 | CoCoALib | | Normal | Time limit: let user specify time limit for a computation | John Abbott | 08 Nov 2017 16:33 | New Function | 100 |
| 630 | CoCoALib | | Normal | Add graeffe function? | John Abbott | 20 Dec 2017 15:51 | New Function | 100 |
| 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 |
| 625 | CoCoALib | | Normal | NumTheory: sieve of Eratosthenes | John Abbott | 11 May 2015 16:05 | New Function | 100 |
| 623 | CoCoALib | | Normal | Inverse of a matrix over ZZ | Anna Maria Bigatti | 11 May 2015 17:54 | New Function | 100 |
| 617 | CoCoALib | | Normal | configure: check all libraries for compatibility | | 09 Sep 2014 12:21 | Portability | 0 |
| 598 | CoCoALib | | Normal | Syzygy for modules: non-homogeneous module | Anna Maria Bigatti | 27 Mar 2024 17:31 | Improving | 40 |
| 589 | CoCoALib | | Normal | Implement gin (generic initial ideal) in cocoalib | Anna Maria Bigatti | 15 Jul 2014 18:17 | New Function | 0 |
| 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 |
| 583 | CoCoALib | | Normal | New function for printing with extra information | | 07 Jul 2014 11:48 | New Function | 0 |
| 580 | CoCoALib | | Normal | Example for PPVector: ex-PPVector | Anna Maria Bigatti | 31 Jul 2014 12:28 | Documentation | 100 |
| 575 | CoCoALib | | Normal | Investigate using cmake for configuration | John Abbott | 13 Mar 2024 21:19 | Portability | 10 |
| 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 |
| 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 |
| 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 |
| 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 |
| 554 | CoCoALib | | Normal | CoCoALib-Normaliz interface: cannot print a cone | Christof Soeger | 28 Jul 2014 21:43 | New Function | 100 |
| 540 | CoCoALib | | Normal | Progress reporter | John Abbott | 20 May 2014 10:34 | New Function | 100 |
| 539 | CoCoALib | | Low | Functions to clean up a factorization | | 22 Jan 2024 20:28 | New Function | 0 |
| 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 |
| 520 | CoCoALib | | High | Compute inverse in quotient ring (i.e. division in algebraic extn) | Anna Maria Bigatti | 01 Jul 2015 18:40 | New Function | 100 |
| 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 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|-------------|-----------|--|--------------------|-------------------|-----------------|--------|
| 496 | CoCoALib | | Normal | ideal: minimize or minimized? | Anna Maria Bigatti | 01 Apr 2014 18:52 | New Function | 100 |
| 482 | CoCoALib | | Normal | Unique copies of rings -- smart ctor | | 20 Oct 2015 14:33 | Safety | 10 |
| 459 | CoCoALib | | Low | LinearSimplify: port to CoCoALib | | 20 May 2014 09:47 | New Function | 0 |
| 457 | CoCoALib | | Normal | Zero to the power zero, 0^0 | John Abbott | 03 Apr 2014 11:50 | Maths Bugs | 100 |
| 442 | CoCoALib | | Normal | Eigenvectors | | 09 Jul 2014 18:05 | New Function | 0 |
| 440 | CoCoALib | | High | Port RealRoots to C++ | John Abbott | 19 Oct 2016 10:26 | New Function | 0 |
| 437 | CoCoALib | | Normal | MemPool: order free blocks? | | 13 Apr 2015 23:31 | Tidying | 10 |
| 436 | CoCoALib | | Normal | Improve UPoly eval at BigRat for binary rational | | 01 Aug 2014 08:59 | 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 |
| 426 | CoCoALib | | Normal | ConvertTo with optional arg to give more helpful error message | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 420 | CoCoALib | | Normal | Allow user to give a name to a ring | | 13 May 2015 09:55 | Improving | 0 |
| 416 | CoCoALib | | Normal | New fn: NumPartitions | John Abbott | 03 Apr 2014 11:53 | New Function | 100 |
| 409 | CoCoALib | | High | Minimal syzygies (optimized implementation) | Anna Maria Bigatti | 31 Jul 2014 12:36 | New Function | 0 |
| 407 | CoCoALib | | Normal | RingElem ctor from mpz_t (from Bruns) | John Abbott | 03 Apr 2014 11:53 | New Function | 100 |
| 400 | CoCoALib | | Normal | add myJMill member field to ideal | | 15 Sep 2014 12:04 | 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 |
| 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 |
| 387 | CoCoALib | | High | implement algorithm(s) for resolutions | Anna Maria Bigatti | 30 Jul 2014 17:04 | New Function | 0 |
| 386 | CoCoALib | | High | add resolution data type | Anna Maria Bigatti | 11 Jun 2015 14:58 | New Function | 10 |
| 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 |
| 374 | CoCoALib | | Immediate | Porting "IdealOfProjectivePoints" | John Abbott | 08 Feb 2019 20:56 | New Function | 100 |
| 373 | CoCoALib | | Normal | add DeleteCol, DeleteRow | Anna Maria Bigatti | 17 Apr 2014 09:51 | New Function | 100 |
| 366 | CoCoALib | | High | function (CoCoALib) for minimal generators (like old Minimalize) | Anna Maria Bigatti | 03 Apr 2014 11:52 | New Function | 100 |
| 361 | CoCoALib | | Normal | implement IsPrime3, IsMaximal3 | John Abbott | 25 Nov 2017 10:42 | New Function | 100 |
| 357 | CoCoALib | | Normal | Constructor for vectors? CoCoAVector | Anna Maria Bigatti | 12 Feb 2020 14:43 | New Function | 100 |
| 356 | CoCoALib | | Normal | IsZeroDivisor | Anna Maria Bigatti | 17 Apr 2014 09:23 | 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 |
| 342 | CoCoALib | | Normal | Remove denominators: QQ[x] -> ZZ[x] (and PushBack(coeff, PP)) | John Abbott | 17 Apr 2014 09:23 | New Function | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|-------------|----------|--|--------------------|-------------------|---------------|--------|
| 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 |
| 337 | CoCoALib | | Normal | Module homs | | 31 Jul 2014 12:40 | New Function | 0 |
| 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 |
| 315 | CoCoALib | | Normal | Add doc for ApproxPts2 | | 10 Jul 2014 16:23 | Documentation | 0 |
| 313 | CoCoALib | | High | Elim(vector<long>) as PPOrderingCtor | Anna Maria Bigatti | 22 Mar 2024 18:17 | New Function | 30 |
| 312 | CoCoALib | | Normal | LongRange(a,b) returning vector of long a..b (included) | Anna Maria Bigatti | 03 Apr 2014 11:38 | New Function | 100 |
| 310 | CoCoALib | | Normal | ordering and grading (weights) matrix | Anna Maria Bigatti | 31 Jul 2014 17:50 | Renaming | 100 |
| 304 | CoCoALib | | High | Module ordering and grading (and shifts) | Anna Maria Bigatti | 31 Jul 2014 15:01 | 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 |
| 298 | CoCoALib | | High | Valgrind: keep CoCoALib at 0 memory leaks | Anna Maria Bigatti | 01 Aug 2014 08:21 | Safety | 100 |
| 289 | CoCoALib | | Normal | PrimeField -- new fn? | | 01 Aug 2014 08:59 | New Function | 0 |
| 283 | CoCoALib | | Normal | Rational approximation | John Abbott | 18 Feb 2013 20:19 | New Function | 100 |
| 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 |
| 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 |
| 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 |
| 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 |
| 255 | CoCoALib | | Normal | Use BOOST lib default location if possible | John Abbott | 06 Nov 2017 15:49 | Portability | 100 |
| 253 | CoCoALib | | Normal | W.Brun's wish list | John Abbott | 14 Mar 2023 20:09 | Various | 100 |
| 248 | CoCoALib | | Normal | IsDivisible for RingElem with nice interface | Anna Maria Bigatti | 01 Apr 2014 19:13 | New Function | 100 |
| 246 | CoCoALib | | Normal | Approx QIR | | 04 Apr 2014 17:16 | New Function | 0 |
| 244 | CoCoALib | | Normal | Rings: default ctor & assignment | John Abbott | 18 Feb 2013 13:03 | Various | 100 |
| 241 | CoCoALib | | Normal | AreMonomials | Anna Maria Bigatti | 01 Oct 2012 18:26 | New Function | 100 |
| 236 | CoCoALib | | Normal | Add homog (homogenized) for ideal | Anna Maria Bigatti | 23 May 2013 08:26 | New Function | 100 |
| 233 | CoCoALib | | Normal | AsINT and AsRAT -- ConvertTo<BigInt> and ConvertTo<BigRat> | John Abbott | 02 Apr 2014 09:19 | New Function | 100 |
| 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 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|--|----------|---|--------------------|-------------------|-----------------|--------|
| 224 | CoCoALib | | Normal | Leading form | Anna Maria Bigatti | 27 Jan 2014 14:59 | New Function | 100 |
| 223 | CoCoALib | | Normal | Automatic mapping of RingElems | Anna Maria Bigatti | 10 Jul 2014 13:38 | New Function | 100 |
| 222 | CoCoALib | | Normal | Printing polynomials - spaces between terms | | 14 Mar 2023 21:27 | Various | 30 |
| 221 | CoCoALib | | High | Better RingElems | John Abbott | 18 Feb 2013 13:04 | Various | 100 |
| 219 | CoCoALib | | Normal | myDeriv for RingDenseUPolyClean still missing | Anna Maria Bigatti | 02 Apr 2014 08:49 | New Function | 100 |
| 218 | CoCoALib | | Normal | CoCoALib normaliz interface | Christof Soeger | 31 Jul 2014 17:00 | Various | 100 |
| 215 | CoCoALib | | Normal | Janet Bases: check and include code in CoCoALib (first prototype) | Anna Maria Bigatti | 24 Mar 2016 11:50 | New Function | 100 |
| 213 | CoCoALib | | Normal | test-Normaliz1.C | Christof Soeger | 01 Oct 2012 15:43 | 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 |
| 209 | CoCoALib | | High | ReadExpr: input polynomials in CoCoALib | Anna Maria Bigatti | 27 Aug 2014 18:38 | New Function | 100 |
| 206 | CoCoALib | | Urgent | Matrix equation solving: LinKer | | 22 Mar 2024 09:42 | New Function | 30 |
| 203 | CoCoALib | | High | Function to get the Hilbert Polynomial ring from GlobalManager | Anna Maria Bigatti | 03 Apr 2014 11:52 | 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 |
| 180 | CoCoALib | | Normal | GlobalManager: registration of global variables | John Abbott | 08 Nov 2017 17:16 | Safety | 100 |
| 174 | CoCoALib | | Normal | IsStdGraded: add for PPOrdering, PPMonoid, (Sparse)PolyRing.. | | 01 Aug 2014 08:59 | New Function | 0 |
| 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 |
| 156 | CoCoALib | | Normal | Brand new symbol(s) | | 28 May 2012 16:13 | New Function | 100 |
| 153 | CoCoALib | | Normal | Shorter simpler names for some bool3 values and functions | | 07 Apr 2014 14:28 | Renaming | 100 |
| 152 | CoCoALib | | Low | Replace bool3 by tribool | John Abbott | 29 Jan 2021 20:12 | Data Structures | 100 |
| 151 | CoCoALib | | Normal | Iterated CanonicalHom | | 13 May 2015 09:58 | New Function | 0 |
| 150 | CoCoALib | | Normal | RingOf rather than owner? (and than AmbientRing, ...) | | 30 Jul 2014 17:59 | Renaming | 10 |
| 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 |
| 146 | CoCoALib | | Normal | Buchberger-Moeller: input conversions | | 10 Jul 2014 14:17 | New Function | 0 |
| 145 | CoCoALib | Feature #143: Buchberger-Moeller (parent task) | Urgent | Buchberger-Moeller: fast modular impl | John Abbott | 10 Jul 2014 14:17 | New Function | 0 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|--|----------|--|--------------------|-------------------|-----------------|--------|
| 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 |
| 142 | CoCoALib | | Normal | Improve threadsafety | | 21 Mar 2024 20:29 | Safety | 50 |
| 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 |
| 134 | CoCoALib | | Normal | Convenience ring ctors and homs | | 11 Jul 2014 12:06 | New Function | 0 |
| 127 | CoCoALib | | Normal | Convert DUPFF code to C++ | John Abbott | 28 Sep 2022 15:04 | New Function | 50 |
| 126 | CoCoALib | | Normal | New datastructures directory | | 13 May 2015 09:56 | Data Structures | 0 |
| 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 MachinInt (?) | John Abbott | 30 May 2013 15:55 | Safety | 100 |
| 123 | CoCoALib | | Normal | IdealOfPoints with generic coeffs | | 09 Jul 2014 18:15 | New Function | 0 |
| 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 |
| 116 | CoCoALib | | Urgent | ordering matrices with rational coefficients | Anna Maria Bigatti | 02 Apr 2012 15:22 | New Function | 100 |
| 113 | CoCoALib | | Normal | Introduce PartialHom | John Abbott | 09 Jul 2014 18:04 | New Function | 10 |
| 107 | CoCoALib | | Normal | Recognizing finite fields | John Abbott | 27 Jun 2016 08:48 | New Function | 100 |
| 92 | CoCoALib | | Normal | Error Codes | | 19 Apr 2017 08:31 | Various | 0 |
| 91 | CoCoALib | | High | Return type & name for "indets" of a PP | John Abbott | 14 Feb 2020 13:26 | New Function | 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 |
| 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 |
| 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 |
| 68 | CoCoALib | | Normal | cleanup doc for matrix, MatrixViews, *Matrix*,..... | Anna Maria Bigatti | 31 Jul 2014 16:56 | Documentation | 100 |
| 62 | CoCoALib | | Normal | polynomial coefficient extraction w.r.t. single variable -- dense output | John Abbott | 01 Aug 2014 16:25 | New Function | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|----|----------|---|----------|---|--------------------|-------------------|-----------------|--------|
| 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 |
| 37 | CoCoALib | | High | matrix constructors | John Abbott | 15 Dec 2017 15:18 | Data Structures | 100 |
| 30 | CoCoALib | | High | SwapRows, Cols | Anna Maria Bigatti | 05 Jul 2012 10:40 | New Function | 100 |
| 28 | CoCoALib | | Normal | rename RingQ, RingZ --> RingQQ, RingZZ | Anna Maria Bigatti | 10 Feb 2012 18:41 | Renaming | 100 |
| 24 | CoCoALib | | Normal | object files collected in one directory | Anna Maria Bigatti | 14 Oct 2020 15:35 | Makefile | 100 |
| 17 | CoCoALib | | Normal | implement "binomial" (coefficient) for RingElem | John Abbott | 17 Apr 2014 09:22 | New Function | 100 |
| 11 | CoCoALib | | Normal | Bareiss algorithm | John Abbott | 10 Oct 2019 18:45 | New Function | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|---|----------|-------------|----------|---|-------------|-------------------|--------------|--------|
| 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 |