

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|----|----------|---|----------|---|--------------------|-------------------|---------------|--------|
| 1 | CoCoALib | | Normal | MachineInteger --> MachineInt | Anna Maria Bigatti | 09 Nov 2011 17:40 | Renaming | 100 |
| 2 | CoCoALib | | Normal | Makefile problem in ROOT and/or src/AlgebraicCore | John Abbott | 12 Feb 2020 15:00 | Makefile | 100 |
| 3 | CoCoALib | | Normal | implement creation of a PPMonoidElement from vector<BigInt> | John Abbott | 15 Mar 2013 17:35 | New Function | 100 |
| 4 | CoCoALib | | Normal | Squarefree GCD-free basis | John Abbott | 27 Jan 2020 17:58 | New Function | 100 |
| 5 | CoCoALib | | Normal | Coefficient extraction | John Abbott | 17 Apr 2014 09:22 | New Function | 100 |
| 11 | CoCoALib | | Normal | Bareiss algorithm | John Abbott | 10 Oct 2019 18:45 | New Function | 100 |
| 17 | CoCoALib | | Normal | implement "binomial" (coefficient) for RingElem | John Abbott | 17 Apr 2014 09:22 | New Function | 100 |
| 21 | CoCoALib | | Normal | Rename NumTheory and NumTheoryQQ | Anna Maria Bigatti | 13 Jul 2012 15:28 | Renaming | 100 |
| 24 | CoCoALib | | Normal | object files collected in one directory | Anna Maria Bigatti | 14 Oct 2020 15:35 | Makefile | 100 |
| 28 | CoCoALib | | Normal | rename RingQ, RingZ --> RingQQ, RingZZ | Anna Maria Bigatti | 10 Feb 2012 18:41 | Renaming | 100 |
| 29 | CoCoALib | | Normal | CoCoA website: update web page for CoCoALib-0.9950 | Anna Maria Bigatti | 02 Apr 2014 15:39 | Documentation | 100 |
| 39 | CoCoALib | | Normal | Squarefree factorization | John Abbott | 02 Apr 2014 18:58 | New Function | 100 |
| 40 | CoCoALib | Feature #39: Squarefree factorization | Normal | Squarefree factorization - Alessio d'Ali` | John Abbott | 29 Oct 2013 12:32 | New Function | 100 |
| 41 | CoCoALib | Feature #39: Squarefree factorization | Normal | Squarefree factorization - overhead | John Abbott | 29 Oct 2013 12:32 | New Function | 100 |
| 42 | CoCoALib | Feature #39: Squarefree factorization | Normal | Squarefree factorization - generic case | John Abbott | 29 Oct 2013 12:32 | New Function | 100 |
| 43 | CoCoALib | Feature #39: Squarefree factorization | Normal | Squarefree factorization - for polynomials | John Abbott | 29 Oct 2013 12:33 | New Function | 100 |
| 44 | CoCoALib | Feature #43: Squarefree factorization - for polynomials | Normal | Squarefree factorization - univariate polynomials | John Abbott | 29 Oct 2013 12:34 | New Function | 100 |
| 45 | CoCoALib | Feature #44: Squarefree factorization - univariate polynomials | Normal | Squarefree factorization - univariate polynomials, char 0 | John Abbott | 29 Oct 2013 12:34 | New Function | 100 |
| 46 | CoCoALib | Feature #44: Squarefree factorization - univariate polynomials | Normal | Squarefree factorization - univariate polynomials, char p > 0 | John Abbott | 29 Oct 2013 12:35 | New Function | 100 |
| 47 | CoCoALib | Feature #43: Squarefree factorization - for polynomials | Normal | Squarefree factorization - multivariate polynomials | John Abbott | 02 Apr 2014 18:57 | New Function | 100 |
| 48 | CoCoALib | Feature #47: Squarefree factorization - multivariate polynomials | Normal | Squarefree factorization - multivariate polynomials, char 0 | John Abbott | 05 Nov 2015 16:16 | New Function | 100 |

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| 49 | CoCoALib | Feature #47: Squarefree factorization - multivariate polynomials | Normal | Squarefree factorization - multivariate polynomials, char $p > 0$ | John Abbott | 29 Oct 2013 12:35 | New Function | 100 |
| 50 | CoCoALib | | Normal | Polynomial content | John Abbott | 27 May 2013 18:16 | New Function | 100 |
| 51 | CoCoALib | | Normal | polynomial coefficient extraction w.r.t. variable | John Abbott | 27 May 2013 18:19 | New Function | 100 |
| 61 | CoCoALib | | Normal | Conversion functions -- documentation | John Abbott | 02 Apr 2014 17:43 | Documentation | 100 |
| 62 | CoCoALib | | Normal | polynomial coefficient extraction w.r.t. single variable -- dense output | John Abbott | 01 Aug 2014 16:25 | New Function | 100 |
| 63 | CoCoALib | | Normal | Add links to examples in documentation | Anna Maria Bigatti | 30 May 2012 13:40 | Documentation | 100 |
| 64 | CoCoALib | | Normal | submat takes only vector<long> | John Abbott | 08 Mar 2024 17:17 | Improving | 100 |
| 65 | CoCoALib | Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,..... | Normal | matrix - MatrixView | Anna Maria Bigatti | 04 Jul 2012 10:49 | Documentation | 100 |
| 66 | CoCoALib | | Normal | BigInt - NumTheory | John Abbott | 15 Apr 2014 12:39 | Documentation | 100 |
| 67 | CoCoALib | | Normal | Rename MatrixViews | John Abbott | 17 Apr 2014 18:38 | Renaming | 100 |
| 68 | CoCoALib | | Normal | cleanup doc for matrix, MatrixViews, *Matrix*,..... | Anna Maria Bigatti | 31 Jul 2014 16:56 | Documentation | 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 |
| 70 | CoCoALib | | Normal | Index page for html documentation | Anna Maria Bigatti | 04 Jul 2012 10:50 | Documentation | 100 |
| 71 | CoCoALib | Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,..... | Normal | ZeroMat & FilledMat | John Abbott | 15 Apr 2014 16:13 | Tidying | 100 |
| 73 | CoCoALib | Feature #68: cleanup doc for matrix, MatrixViews, *Matrix*,..... | Normal | Repeated rows/cols in submat | | 17 Jul 2014 14:39 | Safety | 100 |
| 75 | CoCoALib | | Normal | Documentation review by Caleo | | 30 Nov 2012 16:26 | Documentation | 100 |
| 81 | CoCoALib | | Normal | DMPI vs DMPPI is slower than expected | John Abbott | 01 Feb 2012 11:35 | Various | 100 |
| 82 | CoCoALib | | Normal | C++11 compatibility questions | John Abbott | 26 Sep 2022 20:34 | Portability | 100 |
| 84 | CoCoALib | | Normal | Names for random streams | John Abbott | 23 May 2013 18:44 | Renaming | 100 |
| 86 | CoCoALib | | Normal | Clean up DivMask and doc | Anna Maria Bigatti | 06 Feb 2012 19:33 | Documentation | 100 |
| 107 | CoCoALib | | Normal | Recognizing finite fields | John Abbott | 27 Jun 2016 08:48 | New Function | 100 |
| 111 | CoCoALib | | Normal | Mod fn for computing remainder | John Abbott | 13 Mar 2024 21:01 | Documentation | 100 |
| 119 | CoCoALib | | Normal | CoCoA4io | John Abbott | 29 May 2013 11:36 | Tidying | 100 |

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|-----|----------|--|----------|--|--------------------|-------------------|-----------------|--------|
| 122 | CoCoALib | | Normal | Porting "LinKer" | John Abbott | 15 Jan 2021 21:10 | New Function | 100 |
| 124 | CoCoALib | | Normal | change long args in matrices into MachineInt (?) | John Abbott | 30 May 2013 15:55 | Safety | 100 |
| 135 | CoCoALib | | Normal | Revise interface to SmallFpImpl & friends | John Abbott | 27 May 2013 14:22 | Tidying | 100 |
| 138 | CoCoALib | | Normal | Automatic conversion from bool3 to bool? | John Abbott | 15 Apr 2014 12:54 | Safety | 100 |
| 139 | CoCoALib | | Normal | Usefulness of ring casting fns (remove AsPolyRing, etc.) | John Abbott | 01 Aug 2014 18:53 | Tidying | 100 |
| 140 | CoCoALib | | Normal | Doc & example for convert | John Abbott | 29 May 2013 16:48 | Documentation | 100 |
| 144 | CoCoALib | Feature #143: Buchberger-Moeller (parent task) | Normal | Buchberger-Moeller: generic impl | John Abbott | 29 Oct 2013 14:50 | New Function | 100 |
| 153 | CoCoALib | | Normal | Shorter simpler names for some bool3 values and functions | | 07 Apr 2014 14:28 | Renaming | 100 |
| 155 | CoCoALib | | Normal | gcd: multivariate over non-prime finite field | John Abbott | 11 May 2012 19:01 | Various | 100 |
| 156 | CoCoALib | | Normal | Brand new symbol(s) | | 28 May 2012 16:13 | New Function | 100 |
| 157 | CoCoALib | | Normal | Separate ThreadsafeCounter from symbol.C | John Abbott | 18 Jun 2012 16:11 | Tidying | 100 |
| 160 | CoCoALib | | Normal | Cleanup doc for rings | Anna Maria Bigatti | 28 May 2012 14:11 | Documentation | 100 |
| 165 | CoCoALib | | Normal | FractionField -- only of TrueGCDDomain? | John Abbott | 11 Jul 2014 12:05 | Tidying | 100 |
| 167 | CoCoALib | | Normal | Integer operations | John Abbott | 31 May 2012 17:39 | Tidying | 100 |
| 178 | CoCoALib | | Normal | IsHomog: should it throw an error when there is no grading? | Anna Maria Bigatti | 29 Oct 2013 14:25 | Safety | 90 |
| 180 | CoCoALib | | Normal | GlobalManager: registration of global variables | John Abbott | 08 Nov 2017 17:16 | Safety | 100 |
| 199 | CoCoALib | | Normal | CFApprox: division by zero | John Abbott | 29 Jun 2012 17:23 | Maths Bugs | 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 |
| 210 | CoCoALib | | Normal | Normaliz: "double" cone for speed and safety | John Abbott | 18 Feb 2013 16:25 | New Function | 100 |
| 211 | CoCoALib | | Normal | NBM: add SparsePolyRing as argument for ordering | John Abbott | 18 Feb 2013 16:48 | New Function | 100 |
| 213 | CoCoALib | | Normal | test-Normaliz1.C | Christof Soeger | 01 Oct 2012 15:43 | 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 |
| 218 | CoCoALib | | Normal | CoCoALib normaliz interface | Christof Soeger | 31 Jul 2014 17:00 | Various | 100 |
| 219 | CoCoALib | | Normal | myDeriv for RingDenseUPolyClean still missing | Anna Maria Bigatti | 02 Apr 2014 08:49 | New Function | 100 |
| 223 | CoCoALib | | Normal | Automatic mapping of RingElems | Anna Maria Bigatti | 10 Jul 2014 13:38 | New Function | 100 |
| 224 | CoCoALib | | Normal | Leading form | Anna Maria Bigatti | 27 Jan 2014 14:59 | New Function | 100 |
| 228 | CoCoALib | | Normal | libcocoa sometimes built without its index | John Abbott | 28 Apr 2017 16:14 | Portability | 100 |
| 233 | CoCoALib | | Normal | AsINT and AsRAT -- ConvertTo<BigInt> and ConvertTo<BigRat> | John Abbott | 02 Apr 2014 09:19 | New Function | 100 |
| 236 | CoCoALib | | Normal | Add homog (homogenized) for ideal | Anna Maria Bigatti | 23 May 2013 08:26 | New Function | 100 |
| 241 | CoCoALib | | Normal | AreMonomials | Anna Maria Bigatti | 01 Oct 2012 18:26 | New Function | 100 |

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| 244 | CoCoALib | | Normal | Rings: default ctor & assignment | John Abbott | 18 Feb 2013 13:03 | Various | 100 |
| 248 | CoCoALib | | Normal | IsDivisible for RingElem with nice interface | Anna Maria Bigatti | 01 Apr 2014 19:13 | New Function | 100 |
| 252 | CoCoALib | | Normal | Documentation for tmp.H (utils on vectors and other containers) | John Abbott | 31 Jul 2014 16:53 | Documentation | 100 |
| 253 | CoCoALib | | Normal | W.Bruns's wish list | John Abbott | 14 Mar 2023 20:09 | Various | 100 |
| 254 | CoCoALib | | Normal | How to return a Hilbert Series in CoCoALib | John Abbott | 17 Apr 2014 15:19 | New Function | 100 |
| 255 | CoCoALib | | Normal | Use BOOST lib default location if possible | John Abbott | 06 Nov 2017 15:49 | Portability | 100 |
| 256 | CoCoALib | | Normal | Improve doc about ordering/grading for poly rings | Anna Maria Bigatti | 14 Mar 2023 19:52 | Documentation | 100 |
| 259 | CoCoALib | | Normal | Squarefree(?) GCD-free basis | John Abbott | 09 Jan 2020 22:22 | New Function | 100 |
| 268 | CoCoALib | | Normal | Exponent range (in power products) | John Abbott | 08 Oct 2015 12:10 | Safety | 100 |
| 269 | CoCoALib | | Normal | PPMonoids: check for exponent overflow in power function | John Abbott | 28 May 2013 18:16 | Safety | 100 |
| 278 | CoCoALib | | Normal | add CoeffVecWRT to cocoalib | John Abbott | 29 Oct 2013 14:50 | New Function | 100 |
| 283 | CoCoALib | | Normal | Rational approximation | John Abbott | 18 Feb 2013 20:19 | New Function | 100 |
| 285 | CoCoALib | | Normal | Notes for adding/removing files from documentation | John Abbott | 17 Apr 2014 09:22 | Documentation | 100 |
| 288 | CoCoALib | | Normal | DynamicBitset example using LPP | Anna Maria Bigatti | 17 Apr 2014 15:23 | Documentation | 100 |
| 291 | CoCoALib | | Normal | NewZZmod and NewRingFp: improve manual, clarify implementation | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 300 | CoCoALib | | Normal | Add fault tolerant rational reconstruction to library | John Abbott | 03 Jun 2013 17:31 | New Function | 100 |
| 303 | CoCoALib | | Normal | Rows and Columns of a matrix | John Abbott | 09 Jan 2020 22:17 | New Function | 100 |
| 310 | CoCoALib | | Normal | ordering and grading (weights) matrix | Anna Maria Bigatti | 31 Jul 2014 17:50 | Renaming | 100 |
| 312 | CoCoALib | | Normal | LongRange(a,b) returning vector of long a..b (included) | Anna Maria Bigatti | 03 Apr 2014 11:38 | New Function | 100 |
| 319 | CoCoALib | | Normal | BOOST -- how it could help in CoCoALib | John Abbott | 15 Dec 2017 17:30 | Portability | 100 |
| 320 | CoCoALib | | Normal | PPMonoid pseudo-ctors without symbol names | John Abbott | 05 Mar 2013 18:16 | New Function | 0 |
| 327 | CoCoALib | | Normal | C++ integer shift operators | John Abbott | 04 Mar 2013 11:27 | Portability | 0 |
| 339 | CoCoALib | | Normal | DenseUPolyClean uses size_t | John Abbott | 28 May 2013 18:57 | Portability | 100 |
| 340 | CoCoALib | | Normal | "configure" does not set BOOST if there are multiple copies in "standard" location | John Abbott | 28 May 2013 18:41 | Makefile | 100 |
| 342 | CoCoALib | | Normal | Remove denominators: QQ[x] -> ZZ[x] (and PushBack(coeff, PP)) | John Abbott | 17 Apr 2014 09:23 | New Function | 100 |
| 351 | CoCoALib | | Normal | Problems with DenseMatImpl::myResize | Anna Maria Bigatti | 17 Apr 2014 08:24 | Safety | 100 |
| 354 | CoCoALib | | Normal | New function BinRepr (was BinExp, also known as Macaulay representation) | John Abbott | 29 May 2013 16:41 | New Function | 100 |
| 356 | CoCoALib | | Normal | IsZeroDivisor | Anna Maria Bigatti | 17 Apr 2014 09:23 | New Function | 100 |
| 357 | CoCoALib | | Normal | Constructor for vectors? CoCoAVector | Anna Maria Bigatti | 12 Feb 2020 14:43 | New Function | 100 |
| 361 | CoCoALib | | Normal | implement IsPrime3, IsMaximal3 | John Abbott | 25 Nov 2017 10:42 | New Function | 100 |

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| 373 | CoCoALib | | Normal | add DeleteCol, DeleteRow | Anna Maria Bigatti | 17 Apr 2014 09:51 | New Function | 100 |
| 377 | CoCoALib | | Normal | IsDivisible -- exact semantics? | John Abbott | 17 Apr 2014 09:21 | Maths Bugs | 100 |
| 379 | CoCoALib | | Normal | Iter for subsets/tuples | John Abbott | 13 Mar 2024 18:25 | Data Structures | 100 |
| 389 | CoCoALib | | Normal | problem loading library.H (parallel make -j4) | Anna Maria Bigatti | 29 Oct 2013 13:31 | Documentation | 100 |
| 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 |
| 391 | CoCoALib | | Normal | Check consistency of template class factorization | | 03 Apr 2014 11:54 | Safety | 100 |
| 404 | CoCoALib | | Normal | deg(F,X) instead of MaxExponent(F,X) ? | John Abbott | 20 May 2014 09:47 | Renaming | 100 |
| 407 | CoCoALib | | Normal | RingElem ctor from mpz_t (from Bruns) | John Abbott | 03 Apr 2014 11:53 | New Function | 100 |
| 408 | CoCoALib | | Normal | Rename MatrixArith to MatrixOperations | John Abbott | 17 Apr 2014 09:48 | Renaming | 100 |
| 410 | CoCoALib | | Normal | New file: BigRatOps | John Abbott | 03 Aug 2018 16:15 | Renaming | 100 |
| 411 | CoCoALib | | Normal | design of factorization template class | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 416 | CoCoALib | | Normal | New fn: NumPartitions | John Abbott | 03 Apr 2014 11:53 | New Function | 100 |
| 417 | CoCoALib | | Normal | ex-Normaliz2-overflow.in too long & too much memory | Christof Soeger | 03 Apr 2014 17:30 | Various | 100 |
| 426 | CoCoALib | | Normal | ConvertTo with optional arg to give more helpful error message | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 428 | CoCoALib | | Normal | PPMonoidOv is not threadsafe | John Abbott | 17 Apr 2014 09:49 | Safety | 100 |
| 429 | CoCoALib | | Normal | factorization: public data fields, or mem fns allowing the fields to be updated. | John Abbott | 17 Apr 2014 09:50 | Safety | 100 |
| 430 | CoCoALib | | Normal | Use -fopenmp flag when compiling CoCoALib with libnormaliz | John Abbott | 17 Apr 2014 09:54 | Portability | 100 |
| 431 | CoCoALib | | Normal | NewPolyRing_DMPI has no constructor with a predefined PPM | John Abbott | 17 Apr 2014 18:39 | New Function | 100 |
| 452 | CoCoALib | | Normal | Documentation for adding functions to CoCoA-5 (BuiltInFunctions and BuiltInOneLiners) | Anna Maria Bigatti | 31 Jul 2014 12:31 | Documentation | 100 |
| 457 | CoCoALib | | Normal | Zero to the power zero, 0^0 | John Abbott | 03 Apr 2014 11:50 | Maths Bugs | 100 |
| 467 | CoCoALib | | Normal | Keep CoCoALib web page up to date! All pages! | Anna Maria Bigatti | 18 Feb 2022 15:32 | Documentation | 100 |
| 496 | CoCoALib | | Normal | ideal: minimize or minimized? | Anna Maria Bigatti | 01 Apr 2014 18:52 | New Function | 100 |
| 498 | CoCoALib | | Normal | IsIntegralDomain, lamIntegralDomain3 | John Abbott | 17 Apr 2014 09:50 | Tidying | 100 |
| 507 | CoCoALib | | Normal | CoCoA website: CoCoALib-0.99532 | Anna Maria Bigatti | 02 Apr 2014 15:40 | Documentation | 100 |
| 508 | CoCoALib | | Normal | Renaming: SqfreeFactor to SqFreeFactor | John Abbott | 15 Apr 2014 13:26 | Renaming | 100 |
| 510 | CoCoALib | | Normal | SyzOfGens (CoCoALib): fix shifts | Anna Maria Bigatti | 17 Apr 2014 16:36 | Maths Bugs | 100 |
| 511 | CoCoALib | | Normal | Rename file TmpFactor to factor | John Abbott | 17 Apr 2014 09:49 | Renaming | 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 |
| 528 | CoCoALib | | Normal | Release: CoCoALib-0.99533 | Anna Maria Bigatti | 30 Jul 2014 10:56 | Tidying | 100 |
| 533 | CoCoALib | | Normal | Convert BigInt/BigRat to string | John Abbott | 20 May 2014 10:33 | New Function | 100 |
| 535 | CoCoALib | | Normal | IO: move GlobalInput etc to CoCoA server! | John Abbott | 15 May 2014 14:58 | Tidying | 100 |
| 536 | CoCoALib | | Normal | Make RingBase::myCharacteristic a fn rather than a proc | John Abbott | 09 Mar 2023 21:58 | Tidying | 100 |

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| 538 | CoCoALib | | Normal | Compilation problem in TmpMorsePaths.C | John Abbott | 20 May 2014 09:52 | Portability | 100 |
| 540 | CoCoALib | | Normal | Progress reporter | John Abbott | 20 May 2014 10:34 | New Function | 100 |
| 554 | CoCoALib | | Normal | CoCoALib-Normaliz interface: cannot print a cone | Christof Soeger | 28 Jul 2014 21:43 | New Function | 100 |
| 560 | CoCoALib | | Normal | CoCoALib/io.H | John Abbott | 15 May 2014 14:26 | Tidying | 100 |
| 568 | CoCoALib | | Normal | Valid symbol heads | John Abbott | 10 Jul 2014 14:26 | Various | 100 |
| 571 | CoCoALib | | Normal | CmpAbs for RingElem | John Abbott | 17 Jul 2014 14:26 | New Function | 100 |
| 573 | CoCoALib | | Normal | Use symbolic links for external libraries | John Abbott | 28 Apr 2017 13:37 | Portability | 100 |
| 574 | CoCoALib | | Normal | Tidy CoCoA root directory | John Abbott | 08 Nov 2017 18:31 | Tidying | 100 |
| 580 | CoCoALib | | Normal | Example for PPVector: ex-PPVector | Anna Maria Bigatti | 31 Jul 2014 12:28 | Documentation | 100 |
| 581 | CoCoALib | | Normal | C++14: MachineInt | John Abbott | 18 Feb 2022 15:26 | Portability | 100 |
| 584 | CoCoALib | | Normal | BaseRing for all rings | John Abbott | 31 Jul 2014 16:55 | New Function | 100 |
| 585 | CoCoALib | | Normal | (Hilbert-) quasi-polynomials | John Abbott | 29 Jul 2014 11:18 | New Function | 100 |
| 587 | CoCoALib | | Normal | port to CoCoALib: Homomorphism pkg (ker, IsInjective, IsSurjective..) | John Abbott | 03 Aug 2018 18:11 | New Function | 100 |
| 599 | CoCoALib | | Normal | Release: CoCoALib-0.99534 | Anna Maria Bigatti | 11 Sep 2014 16:37 | Tidying | 100 |
| 602 | CoCoALib | | Normal | OrdMat: should it be a reference to a MatrixView in all PPOOrderings? | John Abbott | 23 Mar 2016 15:24 | New Function | 100 |
| 604 | CoCoALib | | Normal | Release: CoCoALib-0.99535 | Anna Maria Bigatti | 11 May 2015 14:07 | Tidying | 50 |
| 613 | CoCoALib | | Normal | Which ubuntu / debian packages are needed to compile CoCoA | John Abbott | 30 Nov 2022 22:02 | Portability | 100 |
| 619 | CoCoALib | | Normal | Modulus (for CRTMill) ambiguous | John Abbott | 25 Jun 2015 18:12 | Renaming | 100 |
| 623 | CoCoALib | | Normal | Inverse of a matrix over ZZ | Anna Maria Bigatti | 11 May 2015 17:54 | New Function | 100 |
| 625 | CoCoALib | | Normal | NumTheory: sieve of Eratosthenes | John Abbott | 11 May 2015 16:05 | New Function | 100 |
| 630 | CoCoALib | | Normal | Add graeffe function? | John Abbott | 20 Dec 2017 15:51 | New Function | 100 |
| 631 | CoCoALib | | Normal | Ambiguous: rank for matrix (in ex-matrix1.C) | John Abbott | 30 Jun 2015 15:07 | Portability | 100 |
| 638 | CoCoALib | | Normal | Time limit: let user specify time limit for a computation | John Abbott | 08 Nov 2017 16:33 | New Function | 100 |
| 641 | CoCoALib | | Normal | Clean test-FreeModule1 | Anna Maria Bigatti | 26 Jun 2015 16:58 | Tidying | 100 |
| 642 | CoCoALib | | Normal | Move code in test file into namespace CoCoA | John Abbott | 25 Jun 2015 17:15 | Portability | 100 |
| 645 | CoCoALib | | Normal | Automatic mapping of RingElem: user selectable at run-time (GlobalManager?) | John Abbott | 16 Feb 2024 17:41 | Safety | 100 |
| 649 | CoCoALib | | Normal | Make SmallFpImpl safer to use | John Abbott | 02 Feb 2016 12:36 | Safety | 100 |
| 683 | CoCoALib | | Normal | Module index component in internal compressed representation | Anna Maria Bigatti | 15 Dec 2017 16:37 | Documentation | 100 |
| 689 | CoCoALib | | Normal | Fault tolerant rational reconstruction: make bad factor publicly accessible | John Abbott | 01 Jul 2015 18:04 | Improving | 100 |
| 691 | CoCoALib | | Normal | Matrix determinant over ZZ | John Abbott | 10 Oct 2019 18:46 | Improving | 100 |

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| 693 | CoCoALib | | Normal | Makefile_dependencies in src/tests/ | John Abbott | 15 Dec 2017 17:21 | Tidying | 100 |
| 694 | CoCoALib | | Normal | In test files: when is assert.H needed? | John Abbott | 28 Apr 2017 09:32 | Tidying | 100 |
| 696 | CoCoALib | | Normal | test-OrderedRing: activate or eliminate? | John Abbott | 28 Apr 2017 09:33 | Safety | 100 |
| 705 | CoCoALib | | Normal | DetDirect calls myAddMul with 0 argument -- funny compilation problem?? | Anna Maria Bigatti | 26 Jun 2015 16:15 | Improving | 100 |
| 714 | CoCoALib | | Normal | Interrupt mechanism | John Abbott | 28 Jun 2015 20:46 | New Function | 100 |
| 715 | CoCoALib | | Normal | RandomSubsetIndices, RandomTupleIndices? | John Abbott | 30 Jul 2015 17:39 | New Function | 100 |
| 718 | CoCoALib | | Normal | Insert calls to CheckForInterrupt | Anna Maria Bigatti | 22 Apr 2024 21:35 | Improving | 100 |
| 721 | CoCoALib | | Normal | CheckForInterrupt: string arg to specify where it was called? | John Abbott | 01 Jul 2015 18:12 | Improving | 100 |
| 730 | CoCoALib | | Normal | Stats in GBMill (GReductor) | Anna Maria Bigatti | 20 Nov 2017 16:12 | Improving | 100 |
| 735 | CoCoALib | | Normal | Convert a PPMonoidElem to RingElem with coefficient one | Anna Maria Bigatti | 22 Mar 2016 17:59 | New Function | 100 |
| 736 | CoCoALib | | Normal | QuotientRing: is it correct to prohibit quotient by ideal(1)? | Anna Maria Bigatti | 27 Jan 2020 17:43 | Improving | 100 |
| 747 | CoCoALib | | Normal | New function for making list of symbols (indeterminate names) | John Abbott | 01 Feb 2016 14:21 | Improving | 100 |
| 756 | CoCoALib | | Normal | frobby (v0.9.0) does not compile with g++-4.8 | John Abbott | 06 Nov 2017 16:48 | Portability | 100 |
| 759 | CoCoALib | | Normal | Configuration: where to keep source for test compilations? | John Abbott | 08 Nov 2017 18:13 | Tidying | 100 |
| 762 | CoCoALib | | Normal | ExternalLib-GFan: first prototype | Anna Maria Bigatti | 24 Mar 2016 08:04 | New Function | 100 |
| 764 | CoCoALib | | Normal | ExternalLib: simplify configuration | Anna Maria Bigatti | 03 Aug 2018 17:33 | Improving | 100 |
| 773 | CoCoALib | | Normal | DMPZmerge: make non-recursive | John Abbott | 23 Mar 2016 15:00 | Improving | 100 |
| 776 | CoCoALib | | Normal | FloatStr prints a NUL character | John Abbott | 01 Feb 2016 14:23 | Maths Bugs | 100 |
| 783 | CoCoALib | | Normal | abs for MachineInt | John Abbott | 23 Mar 2016 15:27 | Various | 100 |
| 786 | CoCoALib | | Normal | MemPool: review min and max loaf sizes | Anna Maria Bigatti | 16 Sep 2021 13:38 | Improving | 100 |
| 789 | CoCoALib | | Normal | NumTheory: behaviour of InvMod when inverse does not exist | John Abbott | 08 Nov 2017 17:44 | Safety | 100 |
| 790 | CoCoALib | | Normal | RingDistrMPolyInIFpPPIImpl::mySummandPool frees ZERO PTR many times | John Abbott | 28 Apr 2017 09:32 | Tidying | 100 |
| 792 | CoCoALib | | Normal | configure: search for libgmp too slow | John Abbott | 09 Jan 2020 22:02 | Portability | 100 |
| 793 | CoCoALib | | Normal | compilation on fedora 23: some worrying "error messages" | John Abbott | 15 Dec 2017 16:59 | Makefile | 100 |
| 794 | CoCoALib | | Normal | ar gives warnings on fedora 23 | John Abbott | 17 Feb 2021 09:59 | Portability | 100 |
| 795 | CoCoALib | | Normal | Add new fn InvModNoCheck | John Abbott | 21 Mar 2016 16:57 | New Function | 100 |
| 796 | CoCoALib | | Normal | CoCoALib function for radical (or SqFree) of a polynomial | John Abbott | 06 Nov 2017 15:31 | New Function | 100 |
| 804 | CoCoALib | | Normal | ZeroMat and IdentityMat should produce a matrix not a ConstMatrixView | John Abbott | 23 Mar 2016 15:20 | Safety | 100 |
| 811 | CoCoALib | | Normal | Add new fn SimplestBinaryRatBetween | John Abbott | 23 Mar 2016 15:10 | New Function | 100 |
| 814 | CoCoALib | | Normal | PPOrdering: matrix ordering, what rings are allowed. | John Abbott | 28 Apr 2017 09:33 | Safety | 100 |
| 815 | CoCoALib | | Normal | GlobalManager: Imminent disaster should be a proper error | John Abbott | 28 Apr 2017 09:32 | Tidying | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|-----|----------|-------------|----------|---|--------------------|-------------------|---------------|--------|
| 816 | CoCoALib | | Normal | Rename isqrt to FloorSqrt (following ilog renaming to FloorLog) | John Abbott | 02 Feb 2016 14:13 | Renaming | 100 |
| 819 | CoCoALib | | Normal | GradingMat: does anyone need it? | Anna Maria Bigatti | 24 Mar 2016 11:58 | Tidying | 100 |
| 821 | CoCoALib | | Normal | IsTermOrdering | John Abbott | 24 Mar 2016 12:02 | Tidying | 100 |
| 824 | CoCoALib | | Normal | Fn names: LexMat or MatLex; StdDegRevLexMat or MatStdDegRevLex etc | John Abbott | 24 Mar 2016 18:01 | Renaming | 100 |
| 825 | CoCoALib | | Normal | IsPositiveGrading -- really need 2 signatures? | John Abbott | 03 Aug 2018 17:01 | Tidying | 100 |
| 830 | CoCoALib | | Normal | Use MachineInt instead of long for params to ZeroMat, IdentityMat, MatByCols, MatByRows | John Abbott | 21 Mar 2016 14:36 | Tidying | 100 |
| 831 | CoCoALib | | Normal | primary.cocoa5 | Anna Maria Bigatti | 22 Mar 2016 17:42 | Tidying | 100 |
| 834 | CoCoALib | | Normal | Fix test failures (after revising MatrixForOrdering) | Anna Maria Bigatti | 24 Mar 2016 11:42 | Tidying | 100 |
| 836 | CoCoALib | | Normal | SmallFpImpl: export fns for a fixed convention | John Abbott | 23 Mar 2016 15:10 | New Function | 100 |
| 847 | CoCoALib | | Normal | Doc for BigInt, BigIntOps, BigRat -- should there be BigRatOps? | John Abbott | 03 Aug 2018 15:53 | Documentation | 100 |
| 848 | CoCoALib | | Normal | Implement MinPoly in CoCoALib | Anna Maria Bigatti | 22 Mar 2016 18:02 | New Function | 100 |
| 853 | CoCoALib | | Normal | NearestInt can needlessly throw InsufficientPrecision | John Abbott | 05 Oct 2016 16:33 | Maths Bugs | 100 |
| 854 | CoCoALib | | Normal | Function MakeTermOrd should be renamed MakeTermOrdMat? | Anna Maria Bigatti | 28 Mar 2024 16:25 | Renaming | 100 |
| 856 | CoCoALib | | Normal | MantissaAndExponent2 for twin-float | John Abbott | 28 Apr 2017 09:30 | New Function | 100 |
| 858 | CoCoALib | | Normal | floor for TwinFloat can produce ERR::SERIOUS | John Abbott | 25 Jun 2016 12:08 | Maths Bugs | 100 |
| 859 | CoCoALib | | Normal | Twin-float: comparisons and equality test | John Abbott | 25 Jun 2016 14:11 | Tidying | 100 |
| 860 | CoCoALib | | Normal | Check impl of RingTwinFloatImpl::myIsRational | John Abbott | 28 Apr 2017 09:33 | Safety | 100 |
| 861 | CoCoALib | | Normal | Janet basis code: TmpJB files give some problems with C++11 (using CLANG/LLVM) | John Abbott | 20 Sep 2021 16:17 | Portability | 100 |
| 864 | CoCoALib | | Normal | Assignment of rings (esp. derived rings such as PolyRing) | John Abbott | 28 Apr 2017 09:34 | Tidying | 100 |
| 867 | CoCoALib | | Normal | Compilation Error: C++11 and old GMP-Version | John Abbott | 28 Apr 2017 09:35 | Various | 100 |
| 881 | CoCoALib | | Normal | ReadExpr is too slow on large polys | John Abbott | 08 Nov 2017 15:59 | Improving | 100 |
| 887 | CoCoALib | | Normal | My first compilations with clang | Anna Maria Bigatti | 16 Jan 2018 11:37 | Portability | 100 |
| 889 | CoCoALib | | Normal | configure script: give summary of warnings at end | John Abbott | 28 Apr 2017 09:35 | Various | 100 |
| 895 | CoCoALib | | Normal | NumDigits: sometimes gives wrong answer | John Abbott | 28 Apr 2017 09:30 | Improving | 100 |
| 897 | CoCoALib | | Normal | SimplestBigRatBetween: why is it so slow? | John Abbott | 16 Sep 2021 13:47 | Improving | 100 |
| 900 | CoCoALib | | Normal | New function: MinPoly of RingElem in quotient ring | Anna Maria Bigatti | 03 Aug 2018 17:31 | New Function | 100 |
| 901 | CoCoALib | | Normal | New function: PrimaryDecomposition0 in CoCoALib | Anna Maria Bigatti | 03 Aug 2018 17:40 | New Function | 100 |
| 902 | CoCoALib | | Normal | New function: FrobeniusMat | Elisa Palezzato | 28 Apr 2017 09:31 | New Function | 100 |
| 905 | CoCoALib | | Normal | txt2tags: double quotes wrong in LaTeX | Anna Maria Bigatti | 10 Oct 2019 19:06 | Documentation | 100 |
| 910 | CoCoALib | | Normal | BigRat: read from a string in "decimal" format? | John Abbott | 18 Nov 2016 22:37 | Improving | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|--------------------|-------------------|-----------------|--------|
| 931 | CoCoALib | | Normal | GBasis verbose mode | Anna Maria Bigatti | 29 Apr 2017 08:36 | Improving | 100 |
| 932 | CoCoALib | | Normal | CoCoALib configuration: BOOST dependency | John Abbott | 27 Jan 2020 15:25 | Portability | 100 |
| 936 | CoCoALib | | Normal | ReadExpr: cannot handle exponent which is not integer literal | John Abbott | 18 Nov 2016 22:22 | Improving | 100 |
| 950 | CoCoALib | | Normal | factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho | John Abbott | 13 Mar 2023 22:02 | Safety | 100 |
| 951 | CoCoALib | | Normal | New function: IsSqFree | John Abbott | 18 Nov 2016 23:09 | New Function | 100 |
| 952 | CoCoALib | | Normal | GCD very slow | John Abbott | 30 Oct 2019 22:39 | Improving | 100 |
| 953 | CoCoALib | | Normal | new file for old functions: obsolescent.C | John Abbott | 29 Mar 2017 18:13 | Renaming | 100 |
| 955 | CoCoALib | | Normal | RandomUnimodularMat - random unimodular matrix (of integers) | John Abbott | 18 Nov 2016 22:39 | New Function | 100 |
| 956 | CoCoALib | | Normal | determinant: fails for 0x0 matrix (SEGV) | John Abbott | 28 Apr 2017 09:29 | Maths Bugs | 100 |
| 957 | CoCoALib | | Normal | New function: HasGBasis | Anna Maria Bigatti | 29 Apr 2017 08:32 | New Function | 100 |
| 961 | CoCoALib | | Normal | New function: ReducedGBasis | Anna Maria Bigatti | 21 Apr 2017 17:08 | New Function | 100 |
| 962 | CoCoALib | | Normal | General verbose mode? | John Abbott | 08 Nov 2017 16:29 | Improving | 100 |
| 966 | CoCoALib | | Normal | New function or explain: first and last for a vector? | Anna Maria Bigatti | 14 Feb 2020 10:21 | Documentation | 100 |
| 969 | CoCoALib | | Normal | Output to bad stream (operator<< and myOutput): just return immediately | John Abbott | 11 Feb 2020 18:07 | Improving | 100 |
| 971 | CoCoALib | | Normal | CheckForInterrupt does not work in the expected way | John Abbott | 28 Apr 2017 09:30 | Improving | 100 |
| 979 | CoCoALib | | Normal | SmallestNonDivisor -- new fn | John Abbott | 06 Nov 2017 15:12 | New Function | 100 |
| 982 | CoCoALib | | Normal | Catching interrupts in example progs? | John Abbott | 09 Jan 2020 22:29 | Tidying | 100 |
| 983 | CoCoALib | | Normal | Which ostream for verbose/obsolescent log mesgs? | John Abbott | 28 Apr 2017 09:35 | Tidying | 100 |
| 999 | CoCoALib | | Normal | configuration: include -std=c++03 by default? | John Abbott | 08 Nov 2017 17:08 | Portability | 100 |
| 1005 | CoCoALib | | Normal | Makefile: install target for CoCoALib | John Abbott | 03 Aug 2018 17:08 | Portability | 100 |
| 1008 | CoCoALib | | Normal | square function | John Abbott | 28 Apr 2017 09:31 | New Function | 100 |
| 1009 | CoCoALib | | Normal | coefficients for MinPoly e Frobenius | Anna Maria Bigatti | 03 Aug 2018 17:16 | Improving | 100 |
| 1015 | CoCoALib | | Normal | Bruns SEGV: SparsePolyIter/DMPI problem | John Abbott | 28 Apr 2017 09:30 | Data Structures | 100 |
| 1016 | CoCoALib | | Normal | ReducedGBasis for RingWeyl (and other non-commutative rings) | Anna Maria Bigatti | 28 Apr 2017 16:05 | Improving | 100 |
| 1019 | CoCoALib | | Normal | CPP flags in installed library | John Abbott | 24 Apr 2017 17:55 | Portability | 100 |
| 1030 | CoCoALib | | Normal | IsInRadical: case of homog ideal | John Abbott | 28 Nov 2017 17:56 | Improving | 100 |
| 1033 | CoCoALib | | Normal | Split poly into homog parts | John Abbott | 09 Nov 2017 13:59 | New Function | 100 |
| 1035 | CoCoALib | | Normal | Improvement: how to sort QuotientBasis? | John Abbott | 06 Nov 2017 15:53 | Improving | 100 |
| 1036 | CoCoALib | | Normal | LogStream: stream for log output | John Abbott | 22 Apr 2017 22:52 | Improving | 100 |
| 1039 | CoCoALib | | Normal | Rename iroot? | John Abbott | 14 Oct 2019 15:17 | Renaming | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|--------------------|-------------------|-----------------|--------|
| 1048 | CoCoALib | | Normal | Several tests fail when threadsafe-hack is active | John Abbott | 22 Apr 2017 22:43 | Safety | 100 |
| 1050 | CoCoALib | | Normal | ExternalLibs: function for getting info | John Abbott | 28 Apr 2017 23:17 | New Function | 100 |
| 1052 | CoCoALib | | Normal | ReadExpr(P, string) and RingElem(P, string) in CoCoALib | Anna Maria Bigatti | 10 Nov 2017 12:34 | Improving | 100 |
| 1053 | CoCoALib | | Normal | New function: IdealOfGBasis, IdealOfMinGens in CoCoALib | Anna Maria Bigatti | 20 Nov 2017 16:07 | New Function | 100 |
| 1056 | CoCoALib | | Normal | Release: CoCoALib-0.99560 (together with CoCoA-5.2.2) | Anna Maria Bigatti | 17 Jan 2018 12:09 | Various | 100 |
| 1058 | CoCoALib | | Normal | CoCoALib version in Documentation and Examples | Anna Maria Bigatti | 19 Dec 2017 07:50 | Documentation | 100 |
| 1063 | CoCoALib | | Normal | Catching an (expected) error | Anna Maria Bigatti | 08 Nov 2017 14:24 | Documentation | 100 |
| 1064 | CoCoALib | | Normal | Bug in MinPolyModular (ugly prime) | Anna Maria Bigatti | 10 Nov 2017 12:16 | Improving | 100 |
| 1065 | CoCoALib | | Normal | Design: should we allow an ideal to change ring? | John Abbott | 07 Sep 2023 08:25 | Data Structures | 100 |
| 1078 | CoCoALib | | Normal | makefile: ungraceful when interrupted | John Abbott | 08 Nov 2017 18:08 | Safety | 100 |
| 1081 | CoCoALib | | Normal | ideal() * RingElem gives error | Anna Maria Bigatti | 08 Nov 2017 17:03 | Maths Bugs | 100 |
| 1083 | CoCoALib | | Normal | MinPolyQuot: check input (was: MinPolyQuot gives "bad characteristic" error) | Anna Maria Bigatti | 15 Dec 2017 16:39 | Safety | 100 |
| 1086 | CoCoALib | | Normal | New design for interrupt mechanism | John Abbott | 08 Nov 2017 16:31 | Improving | 100 |
| 1088 | CoCoALib | | Normal | MinPolyQuot: runs out of primes | Anna Maria Bigatti | 08 Nov 2017 14:39 | Improving | 100 |
| 1090 | CoCoALib | | Normal | ExternalLib-MathSAT: first prototype | Anna Maria Bigatti | 19 Dec 2017 07:50 | New Function | 100 |
| 1097 | CoCoALib | | Normal | Rename ERR::SERIOUS to ERR::ShouldNeverGetHere | John Abbott | 08 Nov 2017 17:00 | Renaming | 100 |
| 1102 | CoCoALib | | Normal | Implement RootBound | John Abbott | 06 Nov 2017 15:50 | New Function | 100 |
| 1105 | CoCoALib | | Normal | Primary Decompositon (zero-dim) slow cases | Anna Maria Bigatti | 10 Oct 2019 19:20 | Improving | 100 |
| 1106 | CoCoALib | | Normal | Remove READLINE from CoCoALib | John Abbott | 22 Apr 2024 20:24 | Tidying | 100 |
| 1108 | CoCoALib | | Normal | New fn: IsCoprime (whenever gcd makes sense) | John Abbott | 06 Nov 2017 15:27 | New Function | 100 |
| 1110 | CoCoALib | | Normal | Determinant of matrix over QQ (whose entries are actually integers) | John Abbott | 03 Aug 2018 15:56 | Improving | 100 |
| 1113 | CoCoALib | | Normal | gcd crashes (Floating point exception) | John Abbott | 30 Oct 2019 22:16 | Safety | 100 |
| 1121 | CoCoALib | | Normal | PrevPrime and NextPrime anomalies | John Abbott | 03 Aug 2018 15:48 | Maths Bugs | 100 |
| 1124 | CoCoALib | | Normal | Move examples directory into doc -- or just change makefile? | Anna Maria Bigatti | 03 Aug 2018 17:04 | Documentation | 100 |
| 1126 | CoCoALib | | Normal | New function: SubmoduleOfMinGens | Anna Maria Bigatti | 02 Aug 2018 16:20 | New Function | 100 |
| 1131 | CoCoALib | | Normal | Sturm sequence | John Abbott | 03 Aug 2018 16:05 | New Function | 100 |
| 1135 | CoCoALib | | Normal | Compiler with --debug configuration option gives errors | John Abbott | 15 Dec 2017 15:16 | Tidying | 100 |
| 1144 | CoCoALib | | Normal | File names, coding conventions: Fns, Ops, Operations? part 1 | | 19 Dec 2017 07:44 | Renaming | 100 |
| 1145 | CoCoALib | | Normal | File names, coding conventions: Fns, Ops, Operations? part 2 | John Abbott | 03 Aug 2018 16:17 | Renaming | 100 |
| 1149 | CoCoALib | | Normal | Release: CoCoALib-0.99600 (together with CoCoA-5.2.4) | Anna Maria Bigatti | 09 Aug 2018 10:36 | Various | 100 |
| 1154 | CoCoALib | | Normal | SmallFplmpl: new ctor arg to say do-not-check-that-arg-is-prime | John Abbott | 03 Aug 2018 16:14 | New Function | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|-----------------|--------|
| 1155 | CoCoALib | | Normal | Create a new "prime source" iterator | John Abbott | 03 Aug 2018 16:11 | New Function | 100 |
| 1158 | CoCoALib | | Normal | New function: MinPolyQuotHeuristic --> MinPolyQuot with VerificationLevel | Anna Maria Bigatti | 02 Aug 2018 16:42 | New Function | 100 |
| 1159 | CoCoALib | | Normal | Add global enum "verify/DontVerify" | John Abbott | 25 Jun 2018 15:06 | Data Structures | 100 |
| 1161 | CoCoALib | | Normal | Split NumTheory.C into several smaller files | John Abbott | 12 Feb 2020 16:11 | Tidying | 100 |
| 1162 | CoCoALib | | Normal | Check semantics of NoSmallFactorSeq | John Abbott | 03 Aug 2018 16:01 | Improving | 100 |
| 1163 | CoCoALib | | Normal | Split SparsePolyRing.C in smaller files | Anna Maria Bigatti | 02 Aug 2018 17:04 | Renaming | 100 |
| 1165 | CoCoALib | | Normal | MinPoly over QQ: verification may be very slow | Anna Maria Bigatti | 03 Aug 2018 17:37 | Improving | 100 |
| 1166 | CoCoALib | | Normal | C++11: allows large integer literals (in NumTheory-prime.C) | John Abbott | 07 Mar 2024 20:49 | Portability | 100 |
| 1167 | CoCoALib | | Normal | New class VerificationLevel | John Abbott | 02 Aug 2018 17:29 | New Function | 100 |
| 1169 | CoCoALib | | Normal | New function: RandomLinearForm (CoCoALib) | Anna Maria Bigatti | 02 Aug 2018 16:59 | New Function | 100 |
| 1170 | CoCoALib | | Normal | SmoothFactor: slow when a factor is found | John Abbott | 29 Oct 2020 21:51 | Tidying | 100 |
| 1177 | CoCoALib | | Normal | File names: use "SparsePolyOps" prefix for pertinent files | Anna Maria Bigatti | 03 Aug 2018 16:18 | Various | 100 |
| 1178 | CoCoALib | | Normal | New function: myPrimaryDecomposition_0dim | Anna Maria Bigatti | 03 Aug 2018 17:41 | New Function | 100 |
| 1180 | CoCoALib | | Normal | BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg) | John Abbott | 15 Jan 2021 17:13 | Safety | 100 |
| 1181 | CoCoALib | | Normal | CpuTime is costly! | John Abbott | 31 Jul 2018 14:25 | Improving | 100 |
| 1182 | CoCoALib | | Normal | "mod" for BigInt | John Abbott | 03 Aug 2018 16:27 | Tidying | 100 |
| 1184 | CoCoALib | | Normal | should BeginIter(RingElem) be in SparsePolyIter or in SparsePolyOps-RingElem? | John Abbott | 12 Feb 2020 18:17 | Tidying | 100 |
| 1195 | CoCoALib | | Normal | Release: CoCoALib-0.99580 (together with CoCoA-5.2.4) | | 06 Aug 2018 16:16 | Various | 100 |
| 1196 | CoCoALib | | Normal | Split MatrixOps | John Abbott | 29 Oct 2020 21:42 | Tidying | 100 |
| 1199 | CoCoALib | | Normal | GCD bug with high degree arg | Anna Maria Bigatti | 03 Aug 2018 15:47 | Maths Bugs | 100 |
| 1203 | CoCoALib | | Normal | factor over algebraic extensions | Anna Maria Bigatti | 31 Jul 2018 13:13 | Improving | 100 |
| 1206 | CoCoALib | | Normal | syz, SyzOfGens: which shifts for zero? | Anna Maria Bigatti | 28 Mar 2024 10:15 | Maths Bugs | 100 |
| 1210 | CoCoALib | | Normal | New Fn: make public "coefficients" (of poly wrt a given PP basis) | John Abbott | 08 Aug 2022 20:41 | New Function | 100 |
| 1212 | CoCoALib | | Normal | New function: GBasisByHomog | Anna Maria Bigatti | 22 Mar 2024 14:32 | New Function | 100 |
| 1218 | CoCoALib | | Normal | 32-bit or 64-bit preprocessor macro? | John Abbott | 22 Apr 2024 20:21 | Tidying | 100 |
| 1221 | CoCoALib | | Normal | Reconsider design for accessing headers and libs of external libraries | John Abbott | 09 Oct 2020 13:54 | Portability | 100 |
| 1223 | CoCoALib | | Normal | NewPolyRing default indet names | John Abbott | 10 Oct 2019 19:13 | Safety | 100 |
| 1232 | CoCoALib | | Normal | IsPrime(0) | John Abbott | 29 Oct 2018 18:00 | Various | 100 |
| 1235 | CoCoALib | | Normal | FreeModule: get canonical basis | Anna Maria Bigatti | 14 Feb 2022 18:25 | New Function | 100 |
| 1249 | CoCoALib | | Normal | principal ideal has a Gbasis | Anna Maria Bigatti | 10 Oct 2019 19:12 | Improving | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|---------------|--------|
| 1251 | CoCoALib | | Normal | New function: radical for monomial ideal | Anna Maria Bigatti | 15 Oct 2019 15:29 | New Function | 100 |
| 1257 | CoCoALib | | Normal | C++14: use nullptr | John Abbott | 15 Oct 2019 14:09 | Improving | 100 |
| 1259 | CoCoALib | | Normal | ThreadsafeCounter is now obsolete? | John Abbott | 14 Oct 2019 15:15 | Tidying | 100 |
| 1276 | CoCoALib | | Normal | Release 0.99650 | | 19 Nov 2019 16:49 | Various | 100 |
| 1277 | CoCoALib | | Normal | Gaussian row reduction | John Abbott | 12 Feb 2020 15:26 | New Function | 100 |
| 1279 | CoCoALib | | Normal | Tidy up code for matrix determinant | John Abbott | 29 Oct 2020 21:48 | Tidying | 100 |
| 1283 | CoCoALib | | Normal | Printing for (prime) finite fields | John Abbott | 10 Oct 2019 18:46 | Improving | 100 |
| 1297 | CoCoALib | | Normal | New fn: FixedDivisor (formerly IntrinsicContent) | John Abbott | 17 Oct 2019 23:23 | New Function | 100 |
| 1299 | CoCoALib | | Normal | New fn ConstantTerm? | John Abbott | 30 Apr 2020 14:57 | New Function | 100 |
| 1300 | CoCoALib | | Normal | CoprimeFactorBasis: mishandles negative args | John Abbott | 01 Oct 2019 13:34 | Maths Bugs | 100 |
| 1301 | CoCoALib | | Normal | New function primorial | John Abbott | 14 Oct 2019 15:10 | New Function | 100 |
| 1302 | CoCoALib | | Normal | Factorization mod p | John Abbott | 10 Oct 2019 19:12 | Improving | 100 |
| 1308 | CoCoALib | | Normal | test-GFan1 fails | John Abbott | 11 Feb 2020 18:28 | Portability | 100 |
| 1309 | CoCoALib | | Normal | SmoothFactor: allow limit = 1? | John Abbott | 10 Oct 2019 18:45 | Improving | 100 |
| 1317 | CoCoALib | | Normal | txt2tags: LaTeX/PDF section numbers over 99 in TOC | Anna Maria Bigatti | 10 Oct 2019 18:41 | Documentation | 100 |
| 1319 | CoCoALib | | Normal | Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist | John Abbott | 11 Feb 2020 12:22 | Improving | 100 |
| 1326 | CoCoALib | | Normal | Modify function myElim so that it returns ideal? (not quite) | Anna Maria Bigatti | 18 Mar 2024 16:03 | Tidying | 100 |
| 1329 | CoCoALib | | Normal | New syntax for creating homomorphisms (PolyAlgebraHom) | Anna Maria Bigatti | 09 Nov 2020 10:03 | Improving | 100 |
| 1330 | CoCoALib | | Normal | New syntax for NewQuotientRing | Anna Maria Bigatti | 15 Oct 2019 17:52 | Improving | 100 |
| 1331 | CoCoALib | | Normal | adj: for matrices 7x7 and bigger | John Abbott | 28 Oct 2020 23:17 | Maths Bugs | 100 |
| 1332 | CoCoALib | | Normal | New function: vector of RingElem from string -- in CoCoALib | Anna Maria Bigatti | 29 Oct 2019 16:21 | New Function | 100 |
| 1336 | CoCoALib | | Normal | Rename SparsePolyOps-MonomialIdeal into SparsePolyOps-IdealMonomial? | Anna Maria Bigatti | 15 Oct 2019 17:33 | Renaming | 100 |
| 1338 | CoCoALib | | Normal | Release CoCoALib-0.99700 | Anna Maria Bigatti | 20 May 2020 13:30 | Various | 100 |
| 1347 | CoCoALib | | Normal | New function: ctor of PPVector with vector<RingElem> | Anna Maria Bigatti | 29 Oct 2019 19:44 | Improving | 100 |
| 1353 | CoCoALib | | Normal | configure script help | John Abbott | 13 Feb 2020 11:06 | Documentation | 100 |
| 1360 | CoCoALib | | Normal | configure script: add flags for "only cocoalib" or "both cocoalib and cocoa5" (for boost) | John Abbott | 07 Mar 2023 21:00 | Makefile | 100 |
| 1362 | CoCoALib | | Normal | GBasis verbose mode: some output is on cerr/clog | John Abbott | 12 Feb 2020 18:14 | Tidying | 100 |
| 1366 | CoCoALib | | Normal | Should configure remove the file ERR_MESSAGES if it's empty? | John Abbott | 12 Feb 2020 15:57 | Tidying | 100 |
| 1375 | CoCoALib | | Normal | Radical 0-dim: varied timings | John Abbott | 04 Feb 2022 21:20 | Improving | 100 |
| 1376 | CoCoALib | | Normal | GBasisTimeout: not working as expected | John Abbott | 16 Sep 2021 13:51 | Improving | 100 |
| 1377 | CoCoALib | | Normal | CpuTimeLimit: limit "intervals" between full checks | John Abbott | 11 Feb 2020 12:09 | Improving | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|--------------------|-------------------|-----------------|--------|
| 1380 | CoCoALib | | Normal | Make IsZeroDim more robust | John Abbott | 10 Jan 2020 12:29 | Improving | 100 |
| 1389 | CoCoALib | | Normal | myZeroPtr and myOnePtr | John Abbott | 13 Jan 2020 12:07 | Data Structures | 100 |
| 1391 | CoCoALib | | Normal | RingElems: syntax with [and] ? | Anna Maria Bigatti | 08 Jan 2021 13:03 | Improving | 100 |
| 1395 | CoCoALib | | Normal | SHA checksum for released code | John Abbott | 09 Oct 2020 14:12 | Safety | 100 |
| 1402 | CoCoALib | | Normal | gfan: installation problem: configure reports cdd.h present but cannot be compiled | John Abbott | 11 Feb 2020 18:33 | Portability | 100 |
| 1405 | CoCoALib | | Normal | New fn: interreduction | John Abbott | 07 Mar 2022 10:07 | New Function | 100 |
| 1409 | CoCoALib | | Normal | myTestIsPrimary & Co. : fix design | Anna Maria Bigatti | 30 Apr 2020 14:20 | Safety | 100 |
| 1411 | CoCoALib | | Normal | IsPrimary sometimes wrong | John Abbott | 03 Feb 2020 15:42 | Maths Bugs | 100 |
| 1413 | CoCoALib | | Normal | configure script: MODE option obsolete? | John Abbott | 11 Feb 2020 13:13 | Documentation | 100 |
| 1416 | CoCoALib | | Normal | IdealOfProjectivePoints and MinGens | Anna Maria Bigatti | 04 Mar 2020 14:19 | Maths Bugs | 100 |
| 1423 | CoCoALib | | Normal | Radical 0-dim NYI? missing case for GBasisByHomog | Anna Maria Bigatti | 25 Sep 2020 16:58 | Improving | 100 |
| 1427 | CoCoALib | | Normal | New function: LawrenceMat | Anna Maria Bigatti | 06 Mar 2020 16:35 | New Function | 100 |
| 1434 | CoCoALib | | Normal | GBasisByHomog for DegLex | Anna Maria Bigatti | 06 Mar 2020 17:41 | Improving | 100 |
| 1457 | CoCoALib | | Normal | Make SmoothFactor interruptible | John Abbott | 26 Oct 2020 21:37 | Improving | 100 |
| 1458 | CoCoALib | | Normal | Redesign interrupt mechanism? | John Abbott | 07 Mar 2022 10:07 | Improving | 100 |
| 1460 | CoCoALib | | Normal | Name of TensorMat; change to KroneckerProd? | John Abbott | 29 Oct 2020 15:01 | Renaming | 100 |
| 1462 | CoCoALib | | Normal | Change CoCoA_ERROR into CoCoA_THROW_ERROR | John Abbott | 14 Oct 2020 14:06 | Improving | 100 |
| 1466 | CoCoALib | | Normal | Ops += *= etc for Matrices? | John Abbott | 08 Aug 2022 20:01 | Improving | 100 |
| 1467 | CoCoALib | | Normal | Change syntax apply(phi,M) into phi(M)? | John Abbott | 18 Feb 2022 15:24 | Improving | 100 |
| 1473 | CoCoALib | | Normal | isystem not working as expected | John Abbott | 14 Sep 2021 11:56 | Portability | 100 |
| 1481 | CoCoALib | | Normal | Release CoCoALib 0.99800 | Anna Maria Bigatti | 30 Nov 2022 18:31 | Various | 100 |
| 1483 | CoCoALib | | Normal | IsPowerOf2 for rationals | John Abbott | 26 Oct 2020 21:38 | New Function | 100 |
| 1484 | CoCoALib | | Normal | ker bug (quotientinghom for R/ideal()) | Anna Maria Bigatti | 16 Sep 2021 13:33 | Maths Bugs | 100 |
| 1490 | CoCoALib | | Normal | New function: MinusOneToPower | John Abbott | 06 Oct 2020 09:53 | New Function | 100 |
| 1494 | CoCoALib | | Normal | Normaliz 3.8.9 | John Abbott | 30 Oct 2020 11:08 | Various | 100 |
| 1499 | CoCoALib | | Normal | factorization: allow zero as exponent? | John Abbott | 26 Oct 2020 12:26 | Documentation | 100 |
| 1500 | CoCoALib | | Normal | IsDivisible in a field? | John Abbott | 23 Oct 2020 10:57 | Safety | 100 |
| 1511 | CoCoALib | | Normal | Use C++14 constexpr | John Abbott | 16 Mar 2024 21:55 | Improving | 100 |
| 1515 | CoCoALib | | Normal | Indets in coeffring are ringelems in coeffring? | John Abbott | 27 Oct 2020 18:01 | Tidying | 100 |
| 1523 | CoCoALib | | Normal | Input fns: action when when istream is in bad state? | John Abbott | 17 Feb 2021 11:01 | Safety | 100 |
| 1528 | CoCoALib | | Normal | MacOS compilation with clang | John Abbott | 23 Feb 2022 11:38 | Tidying | 100 |
| 1529 | CoCoALib | | Normal | INPUT questions | John Abbott | 17 Feb 2021 11:02 | Safety | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|---|--------------------|-------------------|-----------------|--------|
| 1538 | CoCoALib | | Normal | RingElem from string (ReadExpr) | John Abbott | 16 Sep 2021 12:54 | Various | 100 |
| 1547 | CoCoALib | | Normal | Require decimal mode for ostream? | John Abbott | 04 Feb 2022 21:50 | Safety | 100 |
| 1555 | CoCoALib | | Normal | Software licence | John Abbott | 07 Mar 2022 10:04 | Various | 100 |
| 1557 | CoCoALib | | Normal | Reading list of rationals is too slow | John Abbott | 10 Mar 2023 18:23 | Improving | 100 |
| 1558 | CoCoALib | | Normal | CpuTimeLimit: more frequent clock checks | John Abbott | 20 Sep 2021 15:41 | Improving | 100 |
| 1563 | CoCoALib | | Normal | BigRat: ctor from machine int | John Abbott | 29 Jan 2021 11:26 | Safety | 100 |
| 1565 | CoCoALib | | Normal | IsInRadical: gives "weird" error | John Abbott | 16 Sep 2021 12:49 | Maths Bugs | 100 |
| 1569 | CoCoALib | | Normal | IsInRadical too slow (test-RadicalMembership) | | 01 Mar 2024 18:40 | Improving | 100 |
| 1570 | CoCoALib | | Normal | FloatStr sometimes produces NUL chars | John Abbott | 16 Sep 2021 12:32 | Maths Bugs | 100 |
| 1580 | CoCoALib | | Normal | New fn prim for polys | John Abbott | 16 Feb 2022 20:45 | New Function | 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 |
| 1590 | CoCoALib | | Normal | CRASH: LinKerZZ | John Abbott | 16 Sep 2021 12:27 | Safety | 100 |
| 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 |
| 1601 | CoCoALib | | Normal | Compilation ambiguity | John Abbott | 04 Feb 2022 21:44 | Portability | 100 |
| 1605 | CoCoALib | | Normal | binomial: domain of defn? | John Abbott | 14 Sep 2021 12:01 | Tidying | 100 |
| 1606 | CoCoALib | | Normal | Return type with const | John Abbott | 21 Mar 2024 20:24 | Improving | 100 |
| 1608 | CoCoALib | | Normal | Domain of definition of NextPrime (and PrevPrime) | John Abbott | 20 Oct 2021 22:09 | Tidying | 100 |
| 1617 | CoCoALib | | Normal | UnivariateIndetIndex: exact semantics | John Abbott | 12 Nov 2021 11:44 | Tidying | 100 |
| 1618 | CoCoALib | | Normal | Tidy ex-RingElem2 | John Abbott | 04 Feb 2022 21:21 | Documentation | 100 |
| 1619 | CoCoALib | | Normal | Make saturate available in CoCoALib | Anna Maria Bigatti | 22 Mar 2024 10:14 | New Function | 100 |
| 1625 | CoCoALib | | Normal | Use new C++ keyword override | John Abbott | 04 Feb 2022 21:48 | Safety | 100 |
| 1627 | CoCoALib | | Normal | Use keyword "delete" for deleted functions | John Abbott | 04 Feb 2022 21:23 | Improving | 100 |
| 1633 | CoCoALib | | Normal | Make polynomial multiplication interruptible? | John Abbott | 04 Feb 2022 21:24 | Improving | 100 |
| 1646 | CoCoALib | | Normal | radical: could be more clever | John Abbott | 24 Jan 2022 09:07 | Maths Bugs | 100 |
| 1647 | CoCoALib | | Normal | Suppress zero from ideal generators? Detect 1 and simplify generators? | Anna Maria Bigatti | 25 Mar 2024 19:02 | Data Structures | 100 |
| 1649 | CoCoALib | | Normal | Add file SparsePolyOps-vector.C | Anna Maria Bigatti | 25 Mar 2024 17:49 | Tidying | 100 |
| 1653 | CoCoALib | | Normal | Discriminant: return value | John Abbott | 04 Feb 2022 21:52 | Various | 100 |
| 1655 | CoCoALib | | Normal | Remove ability to compile CoCoALib against UNINSTALLED gmp? | John Abbott | 14 Feb 2022 10:00 | Safety | 100 |
| 1656 | CoCoALib | | Normal | SEGV in resultant | John Abbott | 04 Feb 2022 21:33 | Maths Bugs | 100 |
| 1661 | CoCoALib | | Normal | Microsoft: cannot compile with signal handling | Nico Mexis | 11 Apr 2024 10:10 | Portability | 100 |

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|----------|--|--------------------|-------------------|---------------|--------|
| 1676 | CoCoALib | | Normal | txt2tags: include in source distribution? | John Abbott | 04 Nov 2022 14:31 | Documentation | 100 |
| 1680 | CoCoALib | | Normal | FloorLog2 or SizeInBase? | John Abbott | 08 Aug 2022 20:16 | Tidying | 100 |
| 1684 | CoCoALib | | Normal | RandomNBitPrime - new fn | John Abbott | 08 Aug 2022 20:08 | New Function | 100 |
| 1689 | CoCoALib | | Normal | Automatic mapping of RHS in += etc | John Abbott | 16 Feb 2024 17:35 | Tidying | 100 |
| 1693 | CoCoALib | | Normal | SizeInBase: obsolete | John Abbott | 07 Oct 2022 15:25 | Tidying | 100 |
| 1694 | CoCoALib | | Normal | New expv/exponents function? | John Abbott | 09 Mar 2023 21:48 | New Function | 100 |
| 1700 | CoCoALib | | Normal | boost_1_80_0 | John Abbott | 23 Nov 2022 17:36 | Documentation | 100 |
| 1712 | CoCoALib | | Normal | Windows: New configuration script | John Abbott | 13 Mar 2023 21:50 | Portability | 100 |
| 1716 | CoCoALib | | Normal | Qn: factor for BigInt | John Abbott | 14 Mar 2023 21:32 | Improving | 100 |
| 1719 | CoCoALib | | Normal | FactorINT has got worse | John Abbott | 22 Apr 2024 20:00 | Improving | 100 |
| 1721 | CoCoALib | | Normal | Verbose messages: print level? | Anna Maria Bigatti | 12 Apr 2023 14:56 | Improving | 100 |
| 1723 | CoCoALib | | Normal | New fn CoprimePart, OddPart: naming question | John Abbott | 07 Mar 2023 20:27 | New Function | 100 |
| 1726 | CoCoALib | | Normal | Dangling references to temporaries | John Abbott | 25 Mar 2024 18:05 | Portability | 100 |
| 1735 | CoCoALib | | Normal | PushFront/PushBack without checks? | John Abbott | 08 Mar 2024 14:38 | Improving | 100 |
| 1739 | CoCoALib | | Normal | IsHomog for ideals | Anna Maria Bigatti | 01 Mar 2024 14:57 | Improving | 100 |
| 1753 | CoCoALib | | Normal | Clean up EulerTotient, InvTotient jungle in NumTheory-misc | John Abbott | 29 Mar 2024 08:25 | Tidying | 100 |
| 1754 | CoCoALib | | Normal | IsSqFree poorly implemented | John Abbott | 23 Feb 2024 11:39 | Improving | 100 |
| 1758 | CoCoALib | | Normal | Graeffe "sign bug" | John Abbott | 22 Dec 2023 20:59 | Maths Bugs | 100 |
| 1761 | CoCoALib | | Normal | MakeTermOrdMat: improve error mesg | John Abbott | 13 Mar 2024 21:16 | Improving | 100 |
| 1763 | CoCoALib | | Normal | implement ideal(R) for zero ideal, with no generators? | Anna Maria Bigatti | 16 Feb 2024 18:01 | New Function | 100 |
| 1768 | CoCoALib | | Normal | Limit indentation in verbose mesgs? | John Abbott | 22 Jan 2024 10:36 | Improving | 100 |
| 1769 | CoCoALib | | Normal | FixedDivisor is sometimes surprisingly slow | John Abbott | 22 Dec 2023 20:57 | Improving | 100 |
| 1770 | CoCoALib | | Normal | Evaluate polynomial function/class | John Abbott | 16 Mar 2024 21:52 | New Function | 100 |
| 1771 | CoCoALib | | Normal | Hadamard bound: field names | John Abbott | 22 Dec 2023 21:31 | Renaming | 100 |
| 1773 | CoCoALib | | Normal | CyclotomicFactorIndexes: gave wrong answer | John Abbott | 22 Dec 2023 21:30 | Maths Bugs | 100 |
| 1779 | CoCoALib | | Normal | Radical error with lex (again) | Anna Maria Bigatti | 23 Feb 2024 12:28 | Various | 100 |
| 1780 | CoCoALib | | Normal | radical for ideals in SparsePolyRing: code in C++ | Anna Maria Bigatti | 22 Mar 2024 09:13 | New Function | 100 |
| 1788 | CoCoALib | | Normal | New MatrixView/function "FirstRows/FirstCols"? | Anna Maria Bigatti | 20 Mar 2024 15:53 | New Function | 100 |