

CoCoALib - Issues

| # | Project | Parent task | Priority | Subject | Assignee | Updated | Category | % Done |
|------|----------|-------------|-----------|---|--------------------|-------------------|-----------------|--------|
| 827 | CoCoALib | | Immediate | NewPositiveMat also for matrices over QQ? Also NewIntegerOrdMat. (now called MakeTermOrd) | | 20 Jan 2017 14:26 | Tidying | 100 |
| 311 | CoCoALib | | Immediate | XelMat, StdDegRevLexMat, ... should be MatrixView | John Abbott | 20 Jan 2017 15:16 | New Function | 100 |
| 1295 | CoCoALib | | Urgent | Never use "using namespace .." in header files | John Abbott | 29 Oct 2019 12:00 | Portability | 100 |
| 805 | CoCoALib | | Urgent | New type for "constant" matrices? | John Abbott | 28 Apr 2017 09:30 | Data Structures | 100 |
| 592 | CoCoALib | | Urgent | Review design of ConstMatrixView | John Abbott | 29 Sep 2016 16:03 | Tidying | 100 |
| 1085 | CoCoALib | | High | Fns with "OUT" args: should they give ERR::MixedRings? | John Abbott | 21 Mar 2024 20:29 | Safety | 100 |
| 908 | CoCoALib | | High | Sum of ideals: what are the generators of $(x) + (0)$? | Anna Maria Bigatti | 08 Mar 2024 14:34 | Improving | 100 |
| 891 | CoCoALib | | High | Replace auto_ptr in preparation for C++11? | John Abbott | 25 Mar 2019 15:45 | Portability | 100 |
| 855 | CoCoALib | | High | Copyright and authorship? | John Abbott | 15 Mar 2023 08:06 | Portability | 100 |
| 829 | CoCoALib | | High | PPOrderingCtor: name of mem fn which actually constructs? | John Abbott | 10 Nov 2017 15:09 | Tidying | 100 |
| 822 | CoCoALib | | High | Should ElimMat return a ConstMatrix | Anna Maria Bigatti | 28 Apr 2017 15:16 | Tidying | 100 |
| 415 | CoCoALib | | High | Remove AsPolyRing etc? | John Abbott | 17 Jul 2014 14:29 | Tidying | 100 |
| 1771 | CoCoALib | | Normal | Hadamard bound: field names | John Abbott | 22 Dec 2023 21:31 | Renaming | 100 |
| 1768 | CoCoALib | | Normal | Limit indentation in verbose mesgs? | John Abbott | 22 Jan 2024 10:36 | Improving | 100 |
| 1753 | CoCoALib | | Normal | Clean up EulerTotient, InvTotient jungle in NumTheory-misc | John Abbott | 29 Mar 2024 08:25 | Tidying | 100 |
| 1735 | CoCoALib | | Normal | PushFront/PushBack without checks? | John Abbott | 08 Mar 2024 14:38 | Improving | 100 |
| 1721 | CoCoALib | | Normal | Verbose messages: print level? | Anna Maria Bigatti | 12 Apr 2023 14:56 | Improving | 100 |
| 1716 | CoCoALib | | Normal | Qn: factor for BigInt | John Abbott | 14 Mar 2023 21:32 | Improving | 100 |
| 1693 | CoCoALib | | Normal | SizeInBase: obsolete | John Abbott | 07 Oct 2022 15:25 | Tidying | 100 |
| 1689 | CoCoALib | | Normal | Automatic mapping of RHS in += etc | John Abbott | 16 Feb 2024 17:35 | Tidying | 100 |
| 1655 | CoCoALib | | Normal | Remove ability to compile CoCoALib against UNINSTALLED gmp? | John Abbott | 14 Feb 2022 10:00 | Safety | 100 |
| 1653 | CoCoALib | | Normal | Discriminant: return value | John Abbott | 04 Feb 2022 21:52 | Various | 100 |
| 1649 | CoCoALib | | Normal | Add file SparsePolyOps-vector.C | Anna Maria Bigatti | 25 Mar 2024 17:49 | Tidying | 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 |
| 1627 | CoCoALib | | Normal | Use keyword "delete" for deleted functions | John Abbott | 04 Feb 2022 21:23 | Improving | 100 |
| 1625 | CoCoALib | | Normal | Use new C++ keyword override | John Abbott | 04 Feb 2022 21:48 | Safety | 100 |
| 1617 | CoCoALib | | Normal | UnivariateIndetIndex: exact semantics | John Abbott | 12 Nov 2021 11:44 | Tidying | 100 |
| 1608 | CoCoALib | | Normal | Domain of definition of NextPrime (and PrevPrime) | John Abbott | 20 Oct 2021 22:09 | Tidying | 100 |
| 1606 | CoCoALib | | Normal | Return type with const | John Abbott | 21 Mar 2024 20:24 | Improving | 100 |
| 1563 | CoCoALib | | Normal | BigRat: ctor from machine int | John Abbott | 29 Jan 2021 11:26 | Safety | 100 |

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| 1558 | CoCoALib | | Normal | CpuTimeLimit: more frequent clock checks | John Abbott | 20 Sep 2021 15:41 | Improving | 100 |
| 1547 | CoCoALib | | Normal | Require decimal mode for ostream? | John Abbott | 04 Feb 2022 21:50 | Safety | 100 |
| 1538 | CoCoALib | | Normal | RingElem from string (ReadExpr) | John Abbott | 16 Sep 2021 12:54 | Various | 100 |
| 1529 | CoCoALib | | Normal | INPUT questions | John Abbott | 17 Feb 2021 11:02 | Safety | 100 |
| 1528 | CoCoALib | | Normal | MacOS compilation with clang | John Abbott | 23 Feb 2022 11:38 | Tidying | 100 |
| 1523 | CoCoALib | | Normal | Input fns: action when when istream is in bad state? | John Abbott | 17 Feb 2021 11:01 | Safety | 100 |
| 1515 | CoCoALib | | Normal | Indets in coeffring are ringelems in coeffring? | John Abbott | 27 Oct 2020 18:01 | Tidying | 100 |
| 1511 | CoCoALib | | Normal | Use C++14 constexpr | John Abbott | 16 Mar 2024 21:55 | Improving | 100 |
| 1500 | CoCoALib | | Normal | IsDivisible in a field? | John Abbott | 23 Oct 2020 10:57 | Safety | 100 |
| 1467 | CoCoALib | | Normal | Change syntax apply(phi,M) into phi(M)? | John Abbott | 18 Feb 2022 15:24 | Improving | 100 |
| 1462 | CoCoALib | | Normal | Change CoCoA_ERROR into CoCoA_THROW_ERROR | John Abbott | 14 Oct 2020 14:06 | Improving | 100 |
| 1460 | CoCoALib | | Normal | Name of TensorMat; change to KroneckerProd? | John Abbott | 29 Oct 2020 15:01 | Renaming | 100 |
| 1413 | CoCoALib | | Normal | configure script: MODE option obsolete? | John Abbott | 11 Feb 2020 13:13 | Documentation | 100 |
| 1409 | CoCoALib | | Normal | myTestIsPrimary & Co. : fix design | Anna Maria Bigatti | 30 Apr 2020 14:20 | Safety | 100 |
| 1391 | CoCoALib | | Normal | RingElems: syntax with [and] ? | Anna Maria Bigatti | 08 Jan 2021 13:03 | Improving | 100 |
| 1389 | CoCoALib | | Normal | myZeroPtr and myOnePtr | John Abbott | 13 Jan 2020 12:07 | Data Structures | 100 |
| 1377 | CoCoALib | | Normal | CpuTimeLimit: limit "intervals" between full checks | John Abbott | 11 Feb 2020 12:09 | Improving | 100 |
| 1366 | CoCoALib | | Normal | Should configure remove the file ERR_MESGS if it's empty? | John Abbott | 12 Feb 2020 15:57 | Tidying | 100 |
| 1336 | CoCoALib | | Normal | Rename SparsePolyOps-MonomialIdeal into SparsePolyOps-IdealMonomial? | Anna Maria Bigatti | 15 Oct 2019 17:33 | Renaming | 100 |
| 1326 | CoCoALib | | Normal | Modify function myElim so that it returns ideal? (not quite) | Anna Maria Bigatti | 18 Mar 2024 16:03 | Tidying | 100 |
| 1309 | CoCoALib | | Normal | SmoothFactor: allow limit = 1? | John Abbott | 10 Oct 2019 18:45 | Improving | 100 |
| 1279 | CoCoALib | | Normal | Tidy up code for matrix determinant | John Abbott | 29 Oct 2020 21:48 | Tidying | 100 |
| 1259 | CoCoALib | | Normal | ThreadsafeCounter is now obsolete? | John Abbott | 14 Oct 2019 15:15 | Tidying | 100 |
| 1257 | CoCoALib | | Normal | C++14: use nullptr | John Abbott | 15 Oct 2019 14:09 | Improving | 100 |
| 1232 | CoCoALib | | Normal | IsPrime(0) | John Abbott | 29 Oct 2018 18:00 | Various | 100 |
| 1223 | CoCoALib | | Normal | NewPolyRing default indet names | John Abbott | 10 Oct 2019 19:13 | Safety | 100 |
| 1221 | CoCoALib | | Normal | Reconsider design for accessing headers and libs of external libraries | John Abbott | 09 Oct 2020 13:54 | Portability | 100 |
| 1184 | CoCoALib | | Normal | should BeginIter(RingElem) be in SparsePolyIter or in SparsePolyOps-RingElem? | John Abbott | 12 Feb 2020 18:17 | Tidying | 100 |
| 1182 | CoCoALib | | Normal | "mod" for BigInt | John Abbott | 03 Aug 2018 16:27 | Tidying | 100 |
| 1180 | CoCoALib | | Normal | BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg) | John Abbott | 15 Jan 2021 17:13 | Safety | 100 |
| 1177 | CoCoALib | | Normal | File names: use "SparsePolyOps" prefix for pertinent files | Anna Maria Bigatti | 03 Aug 2018 16:18 | Various | 100 |

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| 1166 | CoCoALib | | Normal | C++11: allows large integer literals (in NumTheory-prime.C) | John Abbott | 07 Mar 2024 20:49 | Portability | 100 |
| 1163 | CoCoALib | | Normal | Split SparsePolyRing.C in smaller files | Anna Maria Bigatti | 02 Aug 2018 17:04 | Renaming | 100 |
| 1162 | CoCoALib | | Normal | Check semantics of NoSmallFactorSeq | John Abbott | 03 Aug 2018 16:01 | Improving | 100 |
| 1159 | CoCoALib | | Normal | Add global enum "verify/DontVerify" | John Abbott | 25 Jun 2018 15:06 | Data Structures | 100 |
| 1145 | CoCoALib | | Normal | File names, coding conventions: Fns, Ops, Operations? part 2 | John Abbott | 03 Aug 2018 16:17 | Renaming | 100 |
| 1144 | CoCoALib | | Normal | File names, coding conventions: Fns, Ops, Operations? part 1 | | 19 Dec 2017 07:44 | Renaming | 100 |
| 1124 | CoCoALib | | Normal | Move examples directory into doc -- or just change makefile? | Anna Maria Bigatti | 03 Aug 2018 17:04 | Documentation | 100 |
| 1106 | CoCoALib | | Normal | Remove READLINE from CoCoALib | John Abbott | 22 Apr 2024 20:24 | Tidying | 100 |
| 1086 | CoCoALib | | Normal | New design for interrupt mechanism | John Abbott | 08 Nov 2017 16:31 | Improving | 100 |
| 1065 | CoCoALib | | Normal | Design: should we allow an ideal to change ring? | John Abbott | 07 Sep 2023 08:25 | Data Structures | 100 |
| 1063 | CoCoALib | | Normal | Catching an (expected) error | Anna Maria Bigatti | 08 Nov 2017 14:24 | Documentation | 100 |
| 1019 | CoCoALib | | Normal | CPP flags in installed library | John Abbott | 24 Apr 2017 17:55 | Portability | 100 |
| 999 | CoCoALib | | Normal | configuration: include -std=c++03 by default? | John Abbott | 08 Nov 2017 17:08 | Portability | 100 |
| 983 | CoCoALib | | Normal | Which ostream for verbose/obsolescent log mesgs? | John Abbott | 28 Apr 2017 09:35 | Tidying | 100 |
| 982 | CoCoALib | | Normal | Catching interrupts in example progs? | John Abbott | 09 Jan 2020 22:29 | Tidying | 100 |
| 950 | CoCoALib | | Normal | factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho | John Abbott | 13 Mar 2023 22:02 | Safety | 100 |
| 932 | CoCoALib | | Normal | CoCoALib configuration: BOOST dependency | John Abbott | 27 Jan 2020 15:25 | Portability | 100 |
| 859 | CoCoALib | | Normal | Twin-float: comparisons and equality test | John Abbott | 25 Jun 2016 14:11 | Tidying | 100 |
| 854 | CoCoALib | | Normal | Function MakeTermOrd should be renamed MakeTermOrdMat? | Anna Maria Bigatti | 28 Mar 2024 16:25 | Renaming | 100 |
| 825 | CoCoALib | | Normal | IsPositiveGrading -- really need 2 signatures? | John Abbott | 03 Aug 2018 17:01 | Tidying | 100 |
| 824 | CoCoALib | | Normal | Fn names: LexMat or MatLex; StdDegRevLexMat or MatStdDegRevLex etc | John Abbott | 24 Mar 2016 18:01 | Renaming | 100 |
| 819 | CoCoALib | | Normal | GradingMat: does anyone need it? | Anna Maria Bigatti | 24 Mar 2016 11:58 | Tidying | 100 |
| 816 | CoCoALib | | Normal | Rename isqrt to FloorSqrt (following ilog renaming to FloorLog) | John Abbott | 02 Feb 2016 14:13 | Renaming | 100 |
| 815 | CoCoALib | | Normal | GlobalManager: Imminent disaster should be a proper error | John Abbott | 28 Apr 2017 09:32 | Tidying | 100 |
| 794 | CoCoALib | | Normal | ar gives warnings on fedora 23 | John Abbott | 17 Feb 2021 09:59 | Portability | 100 |
| 789 | CoCoALib | | Normal | NumTheory: behaviour of InvMod when inverse does not exist | John Abbott | 08 Nov 2017 17:44 | Safety | 100 |
| 786 | CoCoALib | | Normal | MemPool: review min and max loaf sizes | Anna Maria Bigatti | 16 Sep 2021 13:38 | Improving | 100 |
| 764 | CoCoALib | | Normal | ExternalLib: simplify configuration | Anna Maria Bigatti | 03 Aug 2018 17:33 | Improving | 100 |
| 683 | CoCoALib | | Normal | Module index component in internal compressed representation | Anna Maria Bigatti | 15 Dec 2017 16:37 | Documentation | 100 |
| 649 | CoCoALib | | Normal | Make SmallFpImpl safer to use | John Abbott | 02 Feb 2016 12:36 | Safety | 100 |
| 642 | CoCoALib | | Normal | Move code in test file into namespace CoCoA | John Abbott | 25 Jun 2015 17:15 | Portability | 100 |

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| 641 | CoCoALib | | Normal | Clean test-FreeModule1 | Anna Maria Bigatti | 26 Jun 2015 16:58 | Tidying | 100 |
| 619 | CoCoALib | | Normal | Modulus (for CRTMill) ambiguous | John Abbott | 25 Jun 2015 18:12 | Renaming | 100 |
| 602 | CoCoALib | | Normal | OrdMat: should it be a reference to a MatrixView in all PPOrdings? | John Abbott | 23 Mar 2016 15:24 | New Function | 100 |
| 584 | CoCoALib | | Normal | BaseRing for all rings | John Abbott | 31 Jul 2014 16:55 | New Function | 100 |
| 581 | CoCoALib | | Normal | C++14: MachineInt | John Abbott | 18 Feb 2022 15:26 | Portability | 100 |
| 560 | CoCoALib | | Normal | CoCoALib/io.H | John Abbott | 15 May 2014 14:26 | Tidying | 100 |
| 535 | CoCoALib | | Normal | IO: move GlobalInput etc to CoCoA server! | John Abbott | 15 May 2014 14:58 | Tidying | 100 |
| 511 | CoCoALib | | Normal | Rename file TmpFactor to factor | John Abbott | 17 Apr 2014 09:49 | Renaming | 100 |
| 498 | CoCoALib | | Normal | IsIntegralDomain, lamIntegralDomain3 | John Abbott | 17 Apr 2014 09:50 | Tidying | 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 |
| 411 | CoCoALib | | Normal | design of factorization template class | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 410 | CoCoALib | | Normal | New file: BigRatOps | John Abbott | 03 Aug 2018 16:15 | Renaming | 100 |
| 408 | CoCoALib | | Normal | Rename MatrixArith to MatrixOperations | John Abbott | 17 Apr 2014 09:48 | Renaming | 100 |
| 404 | CoCoALib | | Normal | deg(F,X) instead of MaxExponent(F,X) ? | John Abbott | 20 May 2014 09:47 | Renaming | 100 |
| 377 | CoCoALib | | Normal | IsDivisible -- exact semantics? | John Abbott | 17 Apr 2014 09:21 | Maths Bugs | 100 |
| 339 | CoCoALib | | Normal | DenseUPolyClean uses size_t | John Abbott | 28 May 2013 18:57 | Portability | 100 |
| 291 | CoCoALib | | Normal | NewZZmod and NewRingFp: improve manual, clarify implementation | John Abbott | 03 Apr 2014 11:54 | Tidying | 100 |
| 268 | CoCoALib | | Normal | Exponent range (in power products) | John Abbott | 08 Oct 2015 12:10 | Safety | 100 |
| 254 | CoCoALib | | Normal | How to return a Hilbert Series in CoCoALib | John Abbott | 17 Apr 2014 15:19 | New Function | 100 |
| 64 | CoCoALib | | Normal | submat takes only vector<long> | John Abbott | 08 Mar 2024 17:17 | Improving | 100 |
| 1463 | CoCoALib | | Low | SmoothFactor: use FactorMultiplicity | John Abbott | 29 Oct 2020 21:44 | Tidying | 100 |
| 806 | CoCoALib | | Low | AssignZero for matrix | John Abbott | 23 Mar 2016 15:31 | Safety | 100 |