

CoCoALib - CoCoALib-1.0 (Oct 24)

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|---|--------------------|-------------------|--------|----------------|
| 550 | Normal | Design | add myResolution member field to ideal and (sub)module | | 13 May 2015 09:57 | 0 | |
| 1208 | Normal | Bug | New function: Threadsafe RandomLinearForm (CoCoALib) | | 01 Oct 2019 11:28 | 0 | 10.0 |
| 678 | Normal | Feature | Accumulator (like a geobucket) | | 17 Nov 2016 19:03 | 20 | |
| 315 | Normal | Feature | Add doc for ApproxPts2 | | 10 Jul 2014 16:23 | 0 | 10.0 |
| 703 | Normal | Design | Add more operations between modules (CoCoALib) | Anna Maria Bigatti | 27 Oct 2017 11:53 | 10 | 20.0 |
| 399 | High | Feature | add myHilbertSeries member field to ideal and (sub)module | Anna Maria Bigatti | 30 Jul 2014 17:04 | 0 | |
| 400 | Normal | Feature | add myJBMill member field to ideal | | 15 Sep 2014 12:04 | 0 | |
| 386 | High | Feature | add resolution data type | Anna Maria Bigatti | 11 Jun 2015 14:58 | 10 | |
| 740 | Normal | Feature | Addition of sparse (multivariate) polynomials | | 17 Jun 2016 14:35 | 0 | |
| 808 | Normal | Bug | Alg Extn by non-zero dim ideal | | 18 Nov 2015 23:29 | 0 | |
| 1339 | Normal | Feature | All PPs of given wdeg | | 16 Oct 2019 14:04 | 0 | |
| 570 | Normal | Feature | Allow use of RingElem instead of ring in some functions (e.g. PPM, CoeffRing) | | 16 Jul 2014 14:43 | 0 | |
| 420 | Normal | Feature | Allow user to give a name to a ring | | 13 May 2015 09:55 | 0 | |
| 246 | Normal | Feature | Approx QIR | | 04 Apr 2014 17:16 | 0 | |
| 112 | Normal | Support | automatic creation of all function signatures | | 07 Apr 2014 14:34 | 0 | |
| 1584 | Normal | Support | Benchmarks? | | 08 Mar 2023 19:41 | 0 | |
| 129 | Normal | Slug | Better GCD | | 09 Jul 2014 18:08 | 0 | 15.0 |
| 1117 | Normal | Feature | Better printing of negative coeffs | | 23 Sep 2019 11:52 | 10 | |
| 729 | Normal | Feature | Betti numbers, betti diagram | | 14 Jun 2018 15:54 | 10 | |
| 873 | Normal | Feature | bool3: add some logical operations? | | 21 Jun 2016 14:37 | 10 | |
| 143 | Urgent | Feature | Buchberger-Moeller (parent task) | John Abbott | 10 Jul 2014 14:16 | 38 | |
| 644 | Normal | Feature | Buchberger-Moeller: add option to stop as soon as 1 poly has been found | John Abbott | 06 Nov 2017 13:58 | 0 | |
| 145 | Urgent | Feature | Buchberger-Moeller: fast modular impl | John Abbott | 10 Jul 2014 14:17 | 0 | 20.0 |
| 147 | Urgent | Feature | Buchberger-Moeller: impl via modular reduction | John Abbott | 10 Jul 2014 14:18 | 20 | 25.0 |
| 146 | Normal | Feature | Buchberger-Moeller: input conversions | | 10 Jul 2014 14:17 | 0 | 7.5 |
| 326 | Normal | Bug | C++ nasty surprises | | 07 Apr 2014 18:13 | 10 | |
| 1010 | Urgent | Feature | C++11: Mario's Hilbert scheme code | | 20 Feb 2017 13:19 | 0 | |
| 1632 | Normal | Design | C++17: notes about updating | | 12 Nov 2021 18:11 | 0 | |
| 497 | Normal | Support | Clang: automatic bug finding | | 04 Apr 2014 17:20 | 0 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|--|--------------------|-------------------|--------|----------------|
| 791 | Normal | Support | Clean code for DistrMPolyClean | Anna Maria Bigatti | 02 Nov 2015 22:13 | 0 | |
| 1799 | Normal | Design | Clean out OLD CODE? | | 24 Mar 2024 10:52 | 0 | |
| 1160 | Normal | Support | Clean up revised RatReconstructByContFrac code | John Abbott | 26 Feb 2019 16:33 | 0 | |
| 87 | Normal | Support | Cleanup header for ring classes (so that they are e-diff-able) | Anna Maria Bigatti | 10 Jul 2014 16:26 | 10 | 5.0 |
| 769 | Normal | Design | CoCoALib cone | | 27 Jan 2020 15:32 | 10 | |
| 360 | Normal | Design | CoCoAServer: what future, what issues? | | 28 Apr 2017 11:19 | 0 | |
| 302 | Normal | Support | Compilation on M\$Windows: Visual Studio | | 22 Mar 2024 23:13 | 60 | |
| 628 | Normal | Feature | Complex twin-floats | | 22 Sep 2014 18:16 | 0 | |
| 617 | Normal | Feature | configure: check all libraries for compatibility | | 09 Sep 2014 12:21 | 0 | |
| 758 | Normal | Feature | configure: have option to say to look for external libs | | 03 Sep 2015 11:41 | 10 | |
| 134 | Normal | Feature | Convenience ring ctors and homs | | 11 Jul 2014 12:06 | 0 | |
| 127 | Normal | Feature | Convert DUPFF code to C++ | John Abbott | 28 Sep 2022 15:04 | 50 | 25.0 |
| 161 | Normal | Support | Convert old "task table" into redmine | | 07 Apr 2014 14:35 | 0 | 8.0 |
| 1378 | Normal | Design | Create two separate radical fns (for 0-dim ideals) | | 03 Jul 2023 17:49 | 0 | |
| 676 | Normal | Support | Credits to CoCoALib contributors | Anna Maria Bigatti | 28 Apr 2017 11:06 | 10 | |
| 778 | Normal | Design | CRTMill::myAddInfo accept modulus 1 or not? | | 21 Mar 2016 15:16 | 0 | |
| 1098 | Normal | Design | Ctors for exceptions/errors | | 06 Sep 2017 15:27 | 0 | |
| 921 | Normal | Design | Design GBMill | | 22 May 2017 14:11 | 0 | |
| 130 | Normal | Bug | Design problem in ideals | | 13 May 2015 09:56 | 0 | |
| 838 | Normal | Feature | Differential algebra | | 24 Oct 2016 15:32 | 10 | |
| 884 | Normal | Slug | DistrMPolyInIPP::myPushFront and DistrMPolyInIPP::myPushBack inefficient if arg is a PP | | 24 May 2016 15:25 | 0 | |
| 231 | Normal | Support | Documentation for QBGenerator needs to be improved. | | 09 Jul 2014 18:06 | 0 | |
| 569 | Normal | Support | Documentation for ReductionCog | | 11 Jun 2014 16:04 | 0 | |
| 926 | Low | Support | Documentation: check layout of history at end of generated HTML files (from the txt files) | | 21 Sep 2016 13:29 | 0 | |
| 505 | Normal | Support | Documentation: write doc for RingDenseUPolyClean | Anna Maria Bigatti | 21 Sep 2016 17:15 | 0 | 1.5 |
| 1419 | Low | Feature | DynamicBitset::lamAll1s | | 03 Feb 2021 18:18 | 0 | |
| 442 | Normal | Feature | Eigenvectors | | 09 Jul 2014 18:05 | 0 | |
| 547 | Normal | Bug | elim using RingTwinFloat triggers error "SERIOUS" | | 15 Jun 2016 14:35 | 0 | 20.0 |
| 277 | Normal | Bug | Eliminate class RefPPMonoidElem? | | 01 Aug 2014 08:59 | 0 | 8.0 |
| 92 | Normal | Feature | Error Codes | | 19 Apr 2017 08:31 | 0 | 40.0 |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|--|--------------------|-------------------|--------|----------------|
| 427 | Normal | Design | Error names and error messages (current design) | | 11 May 2017 10:57 | 10 | 20.0 |
| 972 | Normal | Support | ex-PolyIterator | | 17 Nov 2016 13:21 | 0 | |
| 725 | Normal | Slug | Example database: Slow ideal equality test | | 10 Jun 2015 14:24 | 0 | |
| 205 | Normal | Support | Example for change of coordinates with coeffs in a matrix | Anna Maria Bigatti | 14 Jul 2014 14:39 | 0 | 1.0 |
| 1227 | Normal | Feature | exgcd; solve Bezout equation | | 29 Aug 2019 14:55 | 0 | |
| 738 | Normal | Feature | Extend homomorphism to polynomial ring | | 25 Jun 2015 17:23 | 10 | 3.0 |
| 906 | Normal | Design | External libraries: keep copy of compatible versions? | | 13 Jul 2016 11:19 | 0 | |
| 765 | Normal | Feature | ExternalLib-CDD: (needed by GFan) | Anna Maria Bigatti | 11 Sep 2019 13:47 | 10 | |
| 818 | Normal | Bug | F5 with 3 args? | John Abbott | 24 Nov 2015 10:11 | 10 | |
| 837 | Normal | Slug | factor is very slow on some simple input polynomials | | 06 Jan 2016 14:40 | 0 | |
| 667 | Normal | Feature | factor: multivariate + finite characteristic | | 04 Mar 2015 20:08 | 0 | |
| 874 | Normal | Slug | factor: too slow on largish multivariate poly | John Abbott | 26 Feb 2019 16:29 | 20 | |
| 809 | Normal | Design | FastCmp for degree -- useful? | Anna Maria Bigatti | 27 Nov 2015 16:06 | 0 | |
| 690 | Normal | Feature | Fault tolerant rational reconstruction: implement simultaneous version | | 23 Apr 2015 19:12 | 0 | |
| 785 | Normal | Design | finite fields: global register of fields already created? | | 15 Oct 2015 17:27 | 0 | |
| 565 | Normal | Feature | FloatApprox for TwinFloat values? | John Abbott | 19 Jul 2016 22:44 | 20 | 20.0 |
| 537 | Low | Slug | FloatStr uses too much memory | | 16 Apr 2014 12:01 | 0 | |
| 515 | Normal | Feature | Fn to "flatten" multiple polynomial extns | | 10 Jul 2014 14:22 | 0 | |
| 923 | Normal | Feature | Fn to read symbol range (SymbolRange) | | 16 Sep 2016 15:04 | 0 | |
| 272 | Normal | Design | Forward declarations | | 07 Apr 2014 18:14 | 0 | |
| 305 | Normal | Design | FreeModule: unique copy? | | 10 Dec 2023 20:43 | 10 | |
| 1371 | Low | Bug | French students' example with GFan | | 27 Nov 2019 15:53 | 10 | |
| 539 | Low | Feature | Functions to clean up a factorization | | 22 Jan 2024 20:28 | 0 | 7.0 |
| 627 | Normal | Feature | Gaussian integer and rationals ZZi, QQi | | 23 Sep 2014 16:30 | 0 | |
| 154 | Normal | Bug | GCD normalization (e.g. monic) | | 24 Nov 2016 13:56 | 20 | |
| 987 | Normal | Feature | GCD: add special case if args are monomials | | 28 Nov 2016 22:04 | 0 | |
| 1359 | Normal | Slug | gcd: low degree but big coeffs can be slow | | 30 Oct 2019 22:23 | 0 | |
| 832 | Low | Design | Generalize grading matrix | | 14 Mar 2024 11:29 | 20 | 6.0 |
| 229 | Normal | Feature | Generator for random ring elements | | 01 Aug 2014 08:59 | 0 | |
| 817 | High | Feature | GenRepr in CoCoALib? | | 17 Nov 2016 14:12 | 0 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|---|--------------------|-------------------|--------|----------------|
| 986 | Low | Bug | GFan: require version newer than 0.6 | | 22 Apr 2024 20:06 | 10 | |
| 840 | Normal | Feature | GINV: alex basis | | 31 Mar 2016 13:05 | 10 | |
| 282 | Normal | Feature | Global setting: to use IsProbPrime in place of IsPrime | | 01 Aug 2014 08:59 | 0 | |
| 763 | Normal | Design | GlobalManager: initialization compatible with initialization of external libs | | 21 Mar 2016 16:55 | 10 | |
| 1013 | Normal | Support | GlobalManager: name of object in examples (and tests) | | 25 Feb 2017 11:11 | 10 | |
| 780 | Normal | Feature | GroebnerFan/ExternalLib-GFan: improve package | Anna Maria Bigatti | 21 Apr 2017 11:06 | 20 | 20.0 |
| 1069 | Normal | Bug | GroebnerFan: ERROR: Matrix must be invertible | | 17 Dec 2018 15:16 | 10 | |
| 1049 | Low | Slug | GroebnerFan: slow examples | | 11 Mar 2024 11:12 | 10 | |
| 919 | Normal | Feature | Hilbert Driven GBasis | | 22 May 2017 14:11 | 0 | |
| 227 | Normal | Feature | HilbertBasis from Normaliz: full-lattice or not? | | 31 Jul 2014 12:39 | 0 | |
| 1267 | Normal | Feature | Ideal equality | | 09 Apr 2019 17:48 | 10 | 10.0 |
| 1269 | Normal | Feature | Ideal Ops: sort-cuts for trivial args? | | 04 Apr 2019 15:07 | 0 | |
| 123 | Normal | Feature | IdealOfPoints with generic coeffs | | 09 Jul 2014 18:15 | 0 | |
| 114 | Normal | Bug | Ideals of polynomials | | 10 Jul 2014 14:26 | 10 | 4.0 |
| 882 | Normal | Slug | Impl faster multiplication for DUP (dense univariate polys) | | 09 May 2016 22:10 | 0 | |
| 387 | High | Feature | implement algorithm(s) for resolutions | Anna Maria Bigatti | 30 Jul 2014 17:04 | 0 | |
| 589 | Normal | Feature | Implement gin (generic initial ideal) in cocoalib | Anna Maria Bigatti | 15 Jul 2014 18:17 | 0 | 3.0 |
| 1323 | Normal | Feature | Improve RealRoots: compute sqfr decomp | | 30 Sep 2019 16:14 | 0 | |
| 1324 | Normal | Slug | Improve RootBound | | 30 Oct 2019 21:44 | 10 | |
| 436 | Normal | Feature | Improve UPoly eval at BigRat for binary rational | | 01 Aug 2014 08:59 | 0 | |
| 665 | Normal | Feature | Integrate Janet/Pommaret basis code | John Abbott | 12 Jun 2018 18:36 | 10 | |
| 113 | Normal | Feature | Introduce PartialHom | John Abbott | 09 Jul 2014 18:04 | 10 | 15.0 |
| 1089 | Normal | Bug | invalid pointer in "free" | John Abbott | 20 Jul 2017 13:06 | 10 | |
| 752 | Normal | Design | Investigate using Boost.build instead of make | John Abbott | 28 Apr 2017 11:23 | 0 | |
| 575 | Normal | Feature | Investigate using cmake for configuration | John Abbott | 13 Mar 2024 21:19 | 10 | |
| 885 | Normal | Feature | IsIrred3: fast 3-way irred test (returning bool3) | | 30 Apr 2019 17:19 | 10 | |
| 846 | Normal | Design | IsIrred: correct design? | John Abbott | 26 Feb 2019 16:32 | 20 | |
| 174 | Normal | Feature | IsStdGraded: add for PPOrdering, PPMonoid, (Sparse)PolyRing.. | | 01 Aug 2014 08:59 | 0 | |
| 151 | Normal | Feature | Iterated CanonicalHom | | 13 May 2015 09:58 | 0 | 20.0 |
| 1026 | Normal | Bug | JanetBasis gives error indet index out of range | | 08 Mar 2017 15:26 | 0 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|---|--------------------|-------------------|--------|----------------|
| 76 | Low | Support | keywords in documentation | | 04 Apr 2014 17:51 | 0 | 10.0 |
| 661 | Normal | Feature | Laurent polynomials | | 23 Jan 2015 13:50 | 0 | |
| 937 | Normal | Feature | LinDepMill: Mill for linear dependencies | Anna Maria Bigatti | 18 Apr 2024 16:38 | 10 | |
| 459 | Low | Feature | LinearSimplify: port to CoCoALib | | 20 May 2014 09:47 | 0 | |
| 59 | Low | Support | List of all functions in CoCoALib | | 08 Mar 2023 19:44 | 10 | |
| 120 | Normal | Slug | LT over QQ: surprisingly slow | | 10 Jul 2014 16:26 | 0 | 4.0 |
| 828 | Normal | Feature | MachineInt: function for checking that value is greater than some lower limit (and below MAXLONG) | John Abbott | 15 Apr 2024 10:08 | 20 | |
| 1266 | Normal | Design | Make a poly ring QQ[x,y,z] also contain a ZZ[x,y,z] | | 28 Mar 2019 16:42 | 0 | |
| 835 | Normal | Feature | Make Mario's new code threadsafe | | 09 Dec 2015 16:48 | 0 | |
| 516 | Normal | Feature | Make squarefreefactor work in multiple polynomial extns | | 10 Jul 2014 14:21 | 0 | |
| 149 | Normal | Bug | Makefile dependencies | | 01 Aug 2014 08:59 | 0 | |
| 779 | Low | Bug | Makefile: problem not seeing when files in TmpFactorDir need to be rebuilt | | 17 Sep 2015 22:10 | 0 | |
| 675 | Normal | Slug | Matrix determinant over multivariate poly ring | | 22 May 2015 13:45 | 10 | |
| 1187 | Normal | Slug | Matrix rank is slow (over QQ) | | 26 Jun 2018 11:29 | 0 | |
| 681 | Low | Feature | MemPool: make it easier to get just stats | | 13 Apr 2015 23:25 | 0 | |
| 437 | Normal | Feature | MemPool: order free blocks? | | 13 Apr 2015 23:31 | 10 | 15.0 |
| 409 | High | Feature | Minimal syzygies (optimized implementation) | Anna Maria Bigatti | 31 Jul 2014 12:36 | 0 | 10.0 |
| 353 | Normal | Support | Missing documentation and tests for myRecvTwinFloat | John Abbott | 14 Jul 2014 14:40 | 0 | |
| 337 | Normal | Feature | Module homs | | 31 Jul 2014 12:40 | 0 | |
| 297 | Normal | Design | Modules design: brainstorming | | 31 Jul 2014 14:55 | 30 | |
| 263 | High | Design | Move the various <matrix>::mySetEntry procedures into MatrixBase | | 01 Aug 2014 16:29 | 0 | |
| 258 | Normal | Feature | Multivariate lifting | | 01 Aug 2014 08:59 | 0 | |
| 686 | Normal | Design | myAddMul in poly rings | Anna Maria Bigatti | 20 Apr 2015 13:22 | 20 | |
| 896 | Normal | Feature | myIsEqual, myCmp: direct comparisons between RingElem and MachineInt, BigInt and BigRat? | | 25 Jun 2018 15:31 | 10 | |
| 1147 | Normal | Design | mySquare and myPowerSmallExp | | 30 Apr 2019 17:18 | 0 | |
| 583 | Normal | Feature | New function for printing with extra information | | 07 Jul 2014 11:48 | 0 | |
| 1022 | Normal | Feature | New "LF" function which is based on StdDeg | | 06 Mar 2017 19:37 | 20 | 3.0 |
| 126 | Normal | Feature | New datastructures directory | | 13 May 2015 09:56 | 0 | |
| 1150 | Normal | Feature | New fn: transform ideal with ring hom | | 22 Jun 2020 10:34 | 0 | |
| 914 | Normal | Feature | New function: quorem for univariate polynomials? | | 22 Aug 2016 16:45 | 0 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|--|--------------------|-------------------|--------|----------------|
| 401 | Normal | Bug | NewFreeModule of dimension 0 | | 31 Jul 2014 14:13 | 0 | |
| 841 | Normal | Design | NewPolyRing: tidy up the many different versions | | 01 Sep 2017 11:30 | 10 | |
| 788 | Normal | Support | No doc for DistrMPolyInIFpPP | | 22 Oct 2015 13:49 | 0 | |
| 232 | Normal | Bug | No test for QBGenerator | | 15 Apr 2015 20:15 | 0 | 5.0 |
| 1198 | Normal | Feature | Non-standard DegRevLex (NonStdDegRevLex, WDegRevLex) | | 23 Sep 2019 12:44 | 0 | |
| 728 | Normal | Feature | Noncommutative algebra "of solvable type" | | 09 Jul 2015 08:39 | 10 | |
| 651 | Normal | Feature | Optimized algorithms for implicitization (slicing algorithm, elim, subalgebra..) | | 12 Feb 2015 10:33 | 10 | 100.0 |
| 1134 | Normal | Support | Organize better the documentation for CoCoALib | | 09 Apr 2019 10:50 | 0 | |
| 992 | Normal | Feature | Poly ring homomorphism to change ordering | | 13 Dec 2016 18:04 | 0 | |
| 688 | Normal | Slug | PolyAlgebraHom (PolyRingHom) evaluate multivariate polynomials | | 22 Apr 2015 14:38 | 10 | |
| 438 | Normal | Support | Polynomial multiplication (product of RingElem) | | 10 Jul 2014 16:28 | 10 | |
| 1278 | Normal | Feature | Port old "clever" code for matrix determinant over ZZ to CoCoALib | | 03 May 2019 11:42 | 0 | |
| 440 | High | Feature | Port RealRoots to C++ | John Abbott | 19 Oct 2016 10:26 | 0 | |
| 812 | Normal | Feature | PPMonoid pseudo-ctor without explicit ordering | | 24 Nov 2015 18:16 | 0 | |
| 775 | Low | Feature | PPMonoid with 1 extra "exponent"? | | 15 Sep 2015 20:18 | 0 | |
| 682 | Low | Feature | PPMonoid: add fn to check for overflow in products | | 14 Apr 2015 11:23 | 0 | 3.0 |
| 396 | Normal | Design | PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem? | John Abbott | 13 May 2015 09:57 | 0 | |
| 842 | Normal | Slug | PPMonoidSparse: comparisons are VERY SLOW | | 15 Feb 2016 13:57 | 0 | |
| 803 | Normal | Feature | PPOrdering: use it to compute WDeg? | | 06 Nov 2017 14:00 | 10 | |
| 196 | Normal | Bug | PPWithMask needs checking | Anna Maria Bigatti | 04 Apr 2014 17:50 | 0 | |
| 289 | Normal | Feature | PrimeField -- new fn? | | 01 Aug 2014 08:59 | 0 | |
| 1156 | Normal | Design | Printing for RingElem | | 08 Jan 2020 23:02 | 0 | |
| 74 | Normal | Bug | printing polynomials | | 14 Jul 2014 11:07 | 10 | 5.0 |
| 1059 | Normal | Design | Printing ring for ideals (or just for ideals 0 and 1) | | 05 May 2017 16:58 | 10 | 3.0 |
| 930 | Low | Bug | Printing TwinFloat as (rational) coeff without brackets | | 24 Sep 2016 21:43 | 0 | |
| 746 | Normal | Bug | Problem with GBasis in tower of alg extns | | 21 Mar 2016 14:29 | 0 | |
| 591 | Low | Bug | Problem with template instantiation and order of include directives | | 09 Feb 2024 10:18 | 50 | 5.0 |
| 1103 | Normal | Feature | Pseudo-zero-dim ideals | Anna Maria Bigatti | 05 Nov 2021 16:09 | 30 | |
| 974 | Normal | Feature | QIR/RealRootRefine: improve behaviour if input interval has "nasty" endpoints | | 01 Mar 2021 21:25 | 10 | |
| 513 | High | Design | Quick/correct flag for bool3 fns | | 10 Jul 2014 16:30 | 10 | 20.0 |
| 1369 | Low | Slug | RandomUnimodularMat is slow with many iters | | 09 Jan 2020 12:19 | 10 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|--|--------------------|-------------------|--------|----------------|
| 913 | Normal | Feature | Read input from SymbolicData database | Anna Maria Bigatti | 02 Aug 2016 10:55 | 0 | |
| 551 | Normal | Design | Reconsider overloaded virtual mem fns | | 09 Jul 2014 18:00 | 0 | 15.0 |
| 620 | Normal | Design | Redesign CRTMill | John Abbott | 21 Mar 2016 14:30 | 20 | 40.0 |
| 695 | Normal | Support | Remove cruft from test files | | 08 May 2015 11:37 | 0 | |
| 787 | Normal | Design | Remove refcounts from RingElem? | | 19 Oct 2015 17:08 | 0 | |
| 383 | Normal | Feature | Resolution/morse: integrate Mario Albert's code into CoCoALib | John Abbott | 31 Jul 2014 14:57 | 60 | |
| 150 | Normal | Feature | RingOf rather than owner? (and than AmbientRing, ...) | | 30 Jul 2014 17:59 | 10 | 8.0 |
| 1014 | Low | Bug | RowMat, ColMat with arg an empty list/vector | | 24 Feb 2017 17:54 | 10 | |
| 432 | Normal | Design | Semantics of IsPrintedWithMinus | | 14 Jul 2014 18:13 | 10 | |
| 639 | Low | Feature | Shadow CoCoA namespace to help guarantee portability (without ambiguity) | | 28 Oct 2014 15:34 | 0 | |
| 1706 | Normal | Feature | slimgb: Brickenstein, singular | | 30 Oct 2022 20:30 | 0 | |
| 968 | Normal | Slug | Slow NF example | | 10 Nov 2016 21:33 | 10 | 16.0 |
| 1070 | Normal | Slug | Slug: MakeTermOrd (rk calls in RemoveRedundantRows) | Anna Maria Bigatti | 17 May 2017 13:47 | 10 | |
| 904 | Normal | Feature | SmallFpDouble: which impl of InvMod to use? | | 04 Jul 2016 13:45 | 0 | |
| 869 | Normal | Feature | SmallFpImpl: different repr for computation and for storage? | | 22 Apr 2016 15:14 | 0 | |
| 797 | Normal | Feature | SmallFpImpl: make it faster | John Abbott | 24 Apr 2024 23:04 | 20 | |
| 6 | High | Bug | Sort out RingElem, RefRingElem, ConstRefRingElem mess | John Abbott | 01 Aug 2014 08:59 | 0 | 20.0 |
| 826 | Normal | Feature | Sparse matrices | | 02 Dec 2015 18:24 | 0 | |
| 839 | Low | Feature | SparsePolyIter: make more compatible with STL | | 07 Mar 2024 20:01 | 10 | |
| 572 | Normal | Design | Split SparsePolyRing.H into two files? Problem with circular includes. | | 17 May 2018 16:36 | 0 | |
| 1130 | Normal | Bug | SqFreeFactor: should it work over ZZ? | | 05 Apr 2019 15:39 | 10 | |
| 281 | Normal | Feature | Store unique copy of FF(p) in GlobalManager | | 04 Apr 2014 17:10 | 0 | |
| 316 | Normal | Design | submodule constructor different from ideal | Anna Maria Bigatti | 10 Jul 2014 16:21 | 0 | |
| 562 | Normal | Feature | Subrings | | 29 Sep 2020 13:19 | 0 | 40.0 |
| 564 | Normal | Feature | Temporary file for experimentation | | 16 Jul 2014 14:38 | 0 | 2.0 |
| 784 | Normal | Bug | threadsafety: Scott Meyers's advice about cached values | | 18 Jan 2016 18:12 | 10 | |
| 257 | Normal | Feature | Transcribe C4 code for GCD in QQ[x] | | 01 Aug 2014 08:59 | 0 | |
| 833 | Low | Bug | UIBC: need include file in RingWeyl.C | | 08 Dec 2015 15:06 | 0 | |
| 1491 | Normal | Design | Unified Gaussian reduction impl | | 08 Mar 2023 19:55 | 0 | |
| 647 | Normal | Design | Unique copies of free modules? | | 10 Nov 2014 16:55 | 0 | |

| # | Priority | Tracker | Subject | Assignee | Updated | % Done | Estimated time |
|------|----------|---------|--|--------------------|-------------------|--------|----------------|
| 482 | Normal | Feature | Unique copies of rings -- smart ctor | | 20 Oct 2015 14:33 | 10 | |
| 1173 | Normal | Feature | Upper bound for value of poly in an interval | | 04 Apr 2018 11:55 | 0 | |
| 685 | High | Feature | Use DivMask inside QBGenerator | | 02 Feb 2016 14:16 | 0 | |
| 799 | Low | Slug | vector of "indets" in each PPMonoid? | John Abbott | 11 Nov 2015 13:47 | 20 | |
| 742 | Normal | Slug | View PP exponent vector (and order vector?) as an array of long? | | 01 Sep 2015 12:08 | 10 | |
| 1096 | Low | Support | WEB SITE: HTML is not clean! | Anna Maria Bigatti | 31 Aug 2017 10:05 | 0 | |
| 970 | Normal | Design | Weights in ElimMat? | | 11 Nov 2016 15:49 | 10 | |
| 640 | Normal | Bug | What is test-Dynamic1.C | | 29 Oct 2014 11:30 | 0 | |
| 455 | Normal | Design | Which sets of generators in an ideal? | | 14 Jul 2014 15:17 | 0 | 16.0 |
| 329 | Normal | Slug | Why is DMPI slower than DMPClean? | | 13 May 2015 09:54 | 0 | |
| 624 | Normal | Support | Wikipedia | Anna Maria Bigatti | 06 Nov 2017 13:40 | 0 | |