

CoCoA-5 - CoCoA-5 Open Issues

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|----------------------|----------------|-------------|----------|---|-------------------|--------|--------------------|
| None (11) | | | | | | | |
| 421 | CoCoA-5.?.? | New | Normal | Allow user to give a name to a ring (in C5) | 18 Jul 2014 15:05 | 10 | |
| 453 | CoCoA-5.?.? | In Progress | Normal | Automatic conversion from INT (or RAT) to RINGELEM | 02 Sep 2014 11:15 | 20 | |
| 422 | CoCoA-5.?.? | New | Normal | Bug or feature for protected name? (Use command) | 04 Apr 2014 15:09 | 0 | |
| 1593 | | New | Normal | CanonicalHom | 07 May 2021 08:20 | 0 | |
| 770 | CoCoA-5.?.? | New | Normal | CoCoA type "cone" | 22 May 2017 14:12 | 0 | |
| 1304 | | New | Low | Hermite normal form | 29 Aug 2019 14:43 | 0 | |
| 1175 | | New | Normal | intersection | 05 Apr 2018 09:29 | 0 | |
| 230 | CoCoA-5.?.? | New | Normal | More curiously slow code -- squaring a polynomial | 04 Apr 2014 15:10 | 0 | |
| 633 | CoCoA-5.?.? | New | Normal | New operations? ScalarProduct(MODULELEM,LIST), MATRIX * MODULELEM | 17 Mar 2017 10:55 | 0 | |
| 1751 | | In Progress | Normal | Manual of functions vs ManExamples | 03 Jul 2023 20:54 | 10 | Anna Maria Bigatti |
| 1586 | | In Progress | Normal | Profiling with clang | 02 Apr 2021 09:28 | 10 | Anna Maria Bigatti |
| bug (10) | | | | | | | |
| 1229 | CoCoA-5.4.2 | New | Normal | append is slow | 04 Nov 2021 20:28 | 0 | |
| 1574 | CoCoA-5.4.2 | New | Normal | ApproxSolveTF | 24 Sep 2021 22:29 | 0 | |
| 1406 | CoCoA-5.4.4 | New | Normal | Poor memory management? | 15 Jan 2024 19:51 | 0 | |
| 1639 | CoCoA-5.4.2 | New | Normal | RealRoots: crashes after interrupting | 07 Dec 2021 20:26 | 0 | |
| 1604 | CoCoA-5.4.2 | In Progress | Normal | SqFreeFactor crashes over non-perfect field | 28 Sep 2022 15:00 | 10 | |
| 1794 | CoCoA-5.4.2 | Resolved | Normal | Strange bug: demo-Osaka2015 | 19 Apr 2024 22:10 | 70 | |
| 1552 | CoCoA-5.4.2 | New | Normal | subst: not checking args properly | 03 Feb 2022 19:07 | 0 | |
| 1781 | CoCoA-5.4.2 | Feedback | Urgent | GenReprCompute: SERIOUS ERROR | 09 Feb 2024 08:16 | 90 | Anna Maria Bigatti |
| 1228 | CoCoA-5.4.2 | In Progress | High | SLUG: filling an array | 03 Feb 2022 19:42 | 30 | John Abbott |
| 1502 | CoCoA-5.4.2 | In Progress | Normal | SystemCommand in Microsoft version | 03 Feb 2022 19:46 | 50 | John Abbott |
| Cleaning (15) | | | | | | | |
| 1648 | CoCoA-5.4.2 | New | Normal | ApproxSolve and RationalSolve take different input | 03 Feb 2022 19:08 | 0 | |
| 1679 | CoCoA-5.4.2 | New | Normal | BuiltinFunctions-GFan includes normaliz!?!? | 20 Apr 2022 21:49 | 0 | |
| 1351 | CoCoA-5.?.? | New | Normal | Clean up package points.cpkg | 25 Oct 2019 13:34 | 0 | |
| 491 | CoCoA-5.?.? | In Progress | Normal | Cleaning: Cruft in CoCoA-5 packages | 25 Jul 2018 14:26 | 20 | |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|--|----------------|-------------|----------|---|-------------------|--------|--------------------|
| 477 | CoCoA-5.?.? | New | Normal | Eliminate keyword Alias? | 04 Apr 2014 14:31 | 0 | |
| 465 | CoCoA-5.4.2 | New | Normal | Emacs UI; remove cruft | 13 Nov 2020 11:17 | 0 | |
| 480 | CoCoA-5.?.? | New | Normal | gcd too slow for large degree univariate poly | 30 Oct 2019 22:44 | 0 | |
| 989 | CoCoA-5.?.? | In Progress | Normal | init file obligatory? | 01 Dec 2016 11:36 | 10 | |
| 1760 | CoCoA-5.4.2 | In Progress | Normal | Quitting can be slow | 06 Aug 2023 12:16 | 50 | |
| 1192 | CoCoA-5.4.2 | New | Normal | RealRoots: rational roots (but not binary rational roots) | 04 Nov 2021 20:29 | 0 | |
| 929 | CoCoA-5.4.2 | In Progress | Normal | Clean up CoCoALibSupplement | 03 Feb 2022 19:48 | 20 | Anna Maria Bigatti |
| 474 | CoCoA-5.4.2 | In Progress | Urgent | Eliminate package BinRepr | 03 Feb 2022 19:47 | 50 | Anna Maria Bigatti |
| 376 | CoCoA-5.?.? | In Progress | Normal | Hilbert: Redesign hp.cpkg5 and public functions in TmpHilbert.C | 06 Aug 2020 12:21 | 10 | Anna Maria Bigatti |
| 1746 | CoCoA-5.4.2 | Feedback | Normal | ManExamples target: need t reset VerbosityLevel | 22 Dec 2023 20:09 | 90 | Anna Maria Bigatti |
| 476 | CoCoA-5.4.2 | In Progress | Low | Review utility of package IO | 03 Feb 2022 19:09 | 40 | Anna Maria Bigatti |
| CoCoA-4 function to be added (17) | | | | | | | |
| 977 | CoCoA-5.4.2 | In Progress | Normal | "universal denominator" (related with GroebnerFanIdeals) | 03 Feb 2022 19:11 | 20 | |
| 1564 | CoCoA-5.4.2 | New | Normal | Geometrical theorem proving package | 19 Jan 2021 09:20 | 0 | |
| 171 | CoCoA-5.?.? | New | High | Negate LIST, MAT,... | 04 Apr 2014 16:27 | 0 | |
| 960 | CoCoA-5.?.? | New | Normal | New function: IdealAndSeparatorsOfPoints | 02 Nov 2016 18:06 | 0 | |
| 487 | CoCoA-5.?.? | New | Normal | ScalarProduct accepts MatrixRow? | 18 Jun 2019 15:22 | 0 | |
| 614 | CoCoA-5.?.? | In Progress | Normal | Add functions based on MayerVietorisTree | 04 Sep 2014 14:05 | 10 | Anna Maria Bigatti |
| 702 | CoCoA-5.?.? | New | Normal | Add more operations for modules | 15 May 2015 09:05 | 0 | Anna Maria Bigatti |
| 175 | CoCoA-5.4.4 | In Progress | Normal | Approximate BuchbergerMoeller: port to CoCoA-5 | 14 Mar 2023 22:12 | 70 | Anna Maria Bigatti |
| 78 | CoCoA-5.4.2 | In Progress | High | Elim ordering and matrix ordering in CoCoA-5 | 28 Mar 2024 07:25 | 50 | Anna Maria Bigatti |
| 412 | CoCoA-5.?.? | In Progress | Normal | intersection (all lower case) | 28 Jul 2014 17:41 | 20 | Anna Maria Bigatti |
| 388 | CoCoA-5.?.? | New | High | port optimized resolutions to CoCoA-5 | 02 Jul 2014 16:13 | 0 | Anna Maria Bigatti |
| 368 | CoCoA-5.4.2 | In Progress | Normal | port SmithNormalForm (CoCoA-4)package to CoCoA-5 | 22 Jan 2024 10:37 | 10 | Anna Maria Bigatti |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|---------------------------------------|----------------|-------------|----------|--|-------------------|--------|--------------------|
| 512 | CoCoA-5.?.? | New | Normal | Resurrect MakeCheck() | 28 Jul 2014 16:20 | 0 | Anna Maria Bigatti |
| 1246 | CoCoA-5.4.4 | Feedback | Urgent | Revive old CoCoA4 package called "cocoa5.cpkg" | 14 Mar 2023 11:58 | 90 | Anna Maria Bigatti |
| 1415 | CoCoA-5.4.2 | In Progress | Normal | thmproving package | 13 Jun 2022 15:31 | 60 | Anna Maria Bigatti |
| 501 | CoCoA-5.?.? | New | Normal | Toric: resurrect function TestSet (and find better name for it?) | 09 Apr 2014 15:53 | 0 | Anna Maria Bigatti |
| 454 | CoCoA-5.?.? | New | Normal | interpolate | 04 Apr 2014 16:24 | 0 | John Abbott |
| CoCoA-4 function: obsolete (2) | | | | | | | |
| 1568 | CoCoA-5.4.2 | In Progress | High | RMap and image: obsolescent? | 17 Oct 2022 14:04 | 40 | Anna Maria Bigatti |
| 1626 | CoCoA-5.4.2 | Feedback | Normal | NewMat: should be obsolescent? | 19 Jan 2024 18:11 | 90 | John Abbott |
| CoCoA-5 function: new (32) | | | | | | | |
| 235 | CoCoA-5.?.? | New | Normal | Add LucasTest to cocoa5? | 04 Apr 2014 16:38 | 0 | |
| 1644 | CoCoA-5.4.2 | In Progress | Normal | Allow user to choose whether to print finite field elems as symm residues or non-neg residue | 03 Feb 2022 19:15 | 10 | |
| 242 | CoCoA-5.4.2 | In Progress | Normal | CoCoA-5 Projects for students (e.g. crediti F and tesi) | 21 Oct 2022 15:53 | 10 | |
| 980 | CoCoA-5.?.? | In Progress | Normal | CoeffSize: function to measure the size of coeffs in a poly | 28 Nov 2023 22:29 | 20 | |
| 1305 | CoCoA-5.?.? | New | Normal | Create a directory | 02 Sep 2019 16:31 | 10 | |
| 737 | CoCoA-5.?.? | In Progress | Low | Elementary transcendental functions (sin, cos, tan, log, exp) | 20 Mar 2017 09:00 | 50 | |
| 1732 | CoCoA-5.4.4 | New | Normal | EvalPolyAtMat | 28 Mar 2023 16:35 | 0 | |
| 1541 | CoCoA-5.4.2 | New | Normal | foreach with ref to list entry? | 15 Jan 2024 19:39 | 0 | |
| 578 | CoCoA-5.4.2 | In Progress | Normal | Gaussian Elimination | 15 May 2020 10:26 | 10 | |
| 1469 | CoCoA-5.4.2 | New | Normal | Get indexed indets from a polyring | 19 Jan 2021 12:39 | 0 | |
| 216 | CoCoA-5.4.2 | In Progress | Normal | Janet Bases: port function into CoCoA-5 | 05 Nov 2021 16:12 | 20 | |
| 1659 | CoCoA-5.4.2 | New | Normal | Jordan Normal Form? | 07 Feb 2022 17:57 | 0 | |
| 1476 | CoCoA-5.4.2 | New | Normal | Lin alg with polys | 06 Aug 2020 15:03 | 0 | |
| 492 | CoCoA-5.?.? | New | Normal | New C5 fn for adjusting the warning level | 22 Jul 2014 12:38 | 0 | |
| 1285 | CoCoA-5.?.? | New | Normal | New Fn: make a homogeneous list of ringelem | 23 May 2019 11:53 | 0 | |
| 1806 | CoCoA-5.4.4 | New | Normal | New function ModuleElems? (like RingElems(RING, STRING)) | 26 Mar 2024 13:44 | 0 | |
| 753 | CoCoA-5.?.? | New | Normal | New function: LeastDegPolynomial (LDP) | 30 Jul 2015 17:29 | 0 | |
| 993 | CoCoA-5.?.? | In Progress | Normal | New function: RingQQi()? extension of QQ with imaginary unit | 13 Nov 2017 15:05 | 0 | |
| 1535 | CoCoA-5.4.2 | In Progress | Normal | New functions: argmin, argmax | 26 Nov 2020 15:52 | 10 | |

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| 626 | CoCoA-5.?.? | New | Normal | Output Betti numbers | 17 Sep 2014 13:11 | 0 | |
| 451 | CoCoA-5.?.? | In Progress | Normal | Port function NewSymbol/NewSymbols to CoCoA-5 | 09 Nov 2015 15:29 | 10 | |
| 731 | CoCoA-5.?.? | In Progress | Normal | Primary Decomposition in CoCoA-5 | 02 Oct 2017 13:30 | 10 | |
| 483 | CoCoA-5.?.? | New | Normal | Unique copies of rings in CoCoA-5 | 04 Apr 2014 16:42 | 0 | |
| 1596 | CoCoA-5.4.4 | Resolved | Normal | Add CoCoA5 function NmzHilbertBasisKer | 14 Mar 2023 14:59 | 80 | Anna Maria Bigatti |
| 1549 | CoCoA-5.4.2 | In Progress | Normal | Add sagbi package | 18 Feb 2022 16:18 | 10 | Anna Maria Bigatti |
| 1107 | CoCoA-5.?.? | New | Normal | CoCoA Online: install (using InteractiveShell) | 16 Oct 2017 16:54 | 10 | Anna Maria Bigatti |
| 274 | CoCoA-5.?.? | In Progress | Normal | InputForm for output readable as input | 04 Apr 2014 16:43 | 10 | Anna Maria Bigatti |
| 1372 | CoCoA-5.4.2 | In Progress | Normal | New function: find ? | 04 Nov 2021 23:01 | 10 | Anna Maria Bigatti |
| 1153 | CoCoA-5.?.? | New | Normal | New function: gin for algebraic extensions | 25 Jul 2018 15:36 | 0 | Anna Maria Bigatti |
| 964 | CoCoA-5.?.? | New | Normal | New function: MakeMultiset? | 25 Jul 2018 15:35 | 0 | Anna Maria Bigatti |
| 579 | CoCoA-5.4.2 | In Progress | Normal | Prototype package for Linear Commutative Algebra | 15 May 2020 10:27 | 10 | Elisa Palezzato |
| 504 | CoCoA-5.?.? | In Progress | Normal | New operators: += -= *= /= | 25 Oct 2019 11:55 | 20 | John Abbott |
| EmacsUI (19) | | | | | | | |
| 148 | CoCoA-5.?.? | In Progress | Normal | C-c C-p in emacs goes to wrong line | 06 Oct 2022 20:15 | 20 | |
| 663 | CoCoA-5.?.? | New | Low | Emacs UI: C-c C-\ copies line cursor is on | 04 Feb 2015 13:19 | 0 | |
| 1432 | CoCoA-5.4.2 | New | Normal | Emacs UI: cocoa5-shell-check-process vs. process-status | 05 Nov 2021 16:32 | 0 | |
| 660 | CoCoA-5.?.? | New | Low | Emacs UI: endfunc does not indent the line | 04 Mar 2020 22:06 | 0 | |
| 1486 | CoCoA-5.4.2 | In Progress | Low | Emacs UI: indentation in a package | 12 Nov 2021 11:19 | 10 | |
| 468 | CoCoA-5.?.? | New | Low | Emacs UI: indentation is wrong after ?keyword | 17 Apr 2014 18:47 | 0 | |
| 469 | CoCoA-5.4.4 | Resolved | Low | Emacs UI: keywords in multiline comments | 15 Jan 2024 19:49 | 20 | |
| 727 | CoCoA-5.4.2 | New | Low | Emacs UI: send-file (C-c C-f) should check if buffer and file are synchronized | 09 Feb 2021 15:22 | 0 | |
| 772 | CoCoA-5.?.? | In Progress | Low | Emacs UI: send-region and send-line make sense inside a cpkg5 file? | 08 Sep 2015 12:49 | 20 | |
| 1363 | CoCoA-5.4.4 | In Progress | Normal | Emacs UI: slow with long lines | 15 Jan 2024 19:32 | 10 | |
| 653 | CoCoA-5.?.? | New | Low | Emacs UI: use "warning colour" for an unmatched */ | 04 Dec 2014 15:39 | 0 | |
| 434 | CoCoA-5.?.? | New | Normal | Emacs UI: very slow when input file is big (with long lines) | 09 Apr 2014 15:52 | 0 | |
| 1551 | CoCoA-5.4.2 | New | Low | Emacs: avoid making buffer visible in 2 "windows"? | 19 Apr 2021 14:11 | 0 | |

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|------|----------------|-------------|----------|---|-------------------|--------|--------------------|
| 448 | CoCoA-5.4.2 | New | Low | EmacsUI Source/SourceRegion produce warning on Microsoft Windows 7 Ultimate | 03 Feb 2022 19:51 | 0 | |
| 1076 | CoCoA-5.?.? | New | Low | EmacsUI: interrupt copies line cursor is on to bottom then interrupts | 12 Jun 2017 18:27 | 0 | |
| 424 | CoCoA-5.?.? | In Progress | Low | Emacs UI: Name of emacs init file | 22 Jul 2014 11:21 | 10 | Anna Maria Bigatti |
| 671 | CoCoA-5.?.? | New | Low | Emacs UI: swapped splitting | 09 Mar 2015 13:49 | 0 | Anna Maria Bigatti |
| 1623 | CoCoA-5.4.2 | Feedback | Low | EmacsUI: annoying colours | 19 Jan 2024 16:50 | 90 | Anna Maria Bigatti |
| 985 | CoCoA-5.4.2 | New | Normal | Microsoft (Windows 10, maybe other versions): more help for installation | 16 Feb 2022 20:26 | 10 | Anna Maria Bigatti |

enhancing/improving (70)

| | | | | | | | |
|------|-------------|-------------|--------|--|-------------------|----|--|
| 1271 | CoCoA-5.?.? | In Progress | Normal | Allow Interruption of printing? | 17 Apr 2019 10:17 | 10 | |
| 862 | CoCoA-5.?.? | New | Normal | append has bad complexity | 05 Apr 2016 13:40 | 0 | |
| 1313 | CoCoA-5.4.2 | New | Normal | Automatic conversion from RINGELEM to INT | 03 Feb 2022 19:21 | 0 | |
| 1622 | CoCoA-5.4.4 | New | Normal | BuiltinOneLiners -- less precise location in error messages | 18 Mar 2024 21:16 | 0 | |
| 917 | CoCoA-5.?.? | New | Normal | CallOnGroebnerFanIdeals: better to use an iterator (or a "stream") | 26 Nov 2016 17:46 | 0 | |
| 1624 | CoCoA-5.4.4 | New | Normal | CantStop playing CantStop | 15 Jan 2024 19:55 | 0 | |
| 1545 | CoCoA-5.4.2 | New | Low | CoeffOfTerm: in CoCoALibSupplement | 11 Dec 2020 12:30 | 20 | |
| 1772 | CoCoA-5.4.2 | New | Normal | Continued fraction: arg type RAT or RAT/INT? | 28 Nov 2023 22:17 | 0 | |
| 1722 | CoCoA-5.?.? | In Progress | Low | Daft slug | 27 Feb 2023 12:57 | 20 | |
| 1560 | CoCoA-5.4.2 | New | Normal | elim for modules | 03 Feb 2022 19:55 | 0 | |
| 888 | CoCoA-5.?.? | New | Normal | Escaped newline to allow a long line to be split into several "physical lines" | 07 Jun 2016 00:26 | 0 | |
| 656 | CoCoA-5.?.? | New | Normal | eval: in which ring should the result be? | 20 Jan 2015 20:25 | 0 | |
| 1025 | CoCoA-5.?.? | In Progress | Normal | Example of slow LEX GBasis computation | 15 Nov 2017 14:57 | 10 | |
| 857 | CoCoA-5.?.? | New | Low | floor, ceil, and NearestInt for RingElem in CoCoA-5? | 21 Feb 2019 09:17 | 0 | |
| 1129 | CoCoA-5.?.? | In Progress | Normal | Generic Timeout for CoCoA-5? | 28 Nov 2017 18:06 | 10 | |
| 984 | CoCoA-5.?.? | New | Normal | GroebnerFanIdeals: order matrices sometimes have "large" entries | 22 Nov 2021 20:19 | 0 | |
| 1475 | CoCoA-5.4.2 | New | Normal | HilbertSeries: make into proper rational function | 03 Feb 2022 19:54 | 0 | |
| 941 | CoCoA-5.?.? | New | Normal | Improve coverage of CoCoA-5 tests | 10 Oct 2016 21:09 | 0 | |
| 1034 | CoCoA-5.?.? | New | Low | Improve error message when args to (infix operator) lsIn have incompatible types | 17 Mar 2017 13:19 | 0 | |
| 1275 | CoCoA-5.?.? | New | Low | incr and decr are slow | 29 Apr 2019 17:53 | 0 | |
| 1508 | CoCoA-5.4.2 | In Progress | Normal | Initial ring | 04 Nov 2021 23:04 | 20 | |
| 1519 | CoCoA-5.4.2 | New | Normal | Interpreter fn Value::from can use std::move? | 03 Feb 2022 19:54 | 0 | |
| 875 | CoCoA-5.?.? | In Progress | Normal | Interpreter is too slow reading a big polynomial | 20 Oct 2020 18:05 | 10 | |

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|------|----------------|-------------|----------|--|-------------------|--------|----------|
| 1141 | CoCoA-5.4.2 | New | Low | IsInRadical: for monomial ideals | 15 May 2020 10:53 | 0 | |
| 1237 | CoCoA-5.4.2 | New | Normal | ker: for PolyAlgHom from QQ[x,y,z] to QQ(t) | 10 Jun 2021 18:06 | 0 | |
| 1291 | CoCoA-5.?.? | New | Low | LinearSimplify: sometimes not optimal | 27 May 2019 21:17 | 0 | |
| 1071 | CoCoA-5.4.2 | In Progress | Normal | LinKerBasis is user-unfriendly | 03 Feb 2022 19:54 | 10 | |
| 879 | CoCoA-5.?.? | New | Normal | LOGAR: make CoCoA-5 easier to use | 09 May 2016 15:30 | 0 | |
| 1752 | CoCoA-5.4.4 | New | Normal | Make it easy to run the tests in a public/distrib version | 06 Jul 2023 12:14 | 0 | |
| 655 | CoCoA-5.?.? | New | Normal | MakeSet can be very slow | 20 Jan 2015 17:12 | 0 | |
| 1425 | CoCoA-5.4.2 | New | Normal | MakeTerm: implement in C++ | 03 Feb 2022 19:22 | 0 | |
| 1296 | CoCoA-5.?.? | In Progress | Normal | Matrixrow-functions | 18 Jun 2019 15:15 | 10 | |
| 1204 | CoCoA-5.4.2 | New | Normal | MinPoly for matrix: fix in cocoa5 and export to cocoa5 | 03 Feb 2022 19:21 | 0 | |
| 1638 | CoCoA-5.4.2 | New | Normal | MinSubsetOfGens sometimes very slow | 06 Dec 2021 20:37 | 0 | |
| 1503 | CoCoA-5.4.2 | New | Normal | More flexible ring creation syntax (after use or ::=) | 08 Oct 2020 14:16 | 0 | |
| 1244 | CoCoA-5.4.2 | In Progress | Normal | MSatLinSolve: req minor improvements | 03 Feb 2022 20:14 | 10 | |
| 1583 | CoCoA-5.4.2 | New | Normal | New fn ElapsedTimeFrom? | 18 Mar 2024 21:27 | 0 | |
| 1003 | CoCoA-5.?.? | In Progress | Normal | New syntax for creating poly rings? | 27 Jan 2017 15:54 | 10 | |
| 1747 | CoCoA-5.4.2 | New | Normal | NewPolyRing with indices -- better interface? | 29 Jun 2023 18:09 | 0 | |
| 716 | CoCoA-5.4.2 | In Progress | Low | NotBuiltin.cpkg5: indent for MODULE | 06 Oct 2022 20:00 | 10 | |
| 1068 | CoCoA-5.?.? | In Progress | Normal | PolyRing constructor: NewOrdvArith computed twice | 21 Mar 2024 11:55 | 10 | |
| 1671 | CoCoA-5.4.2 | New | Normal | Refactor C++ impl in OnlineHelp | 11 Mar 2024 07:56 | 0 | |
| 723 | CoCoA-5.4.2 | New | Normal | Referring to indets with multiple indices from a polyring | 12 Feb 2021 12:16 | 0 | |
| 1728 | CoCoA-5.4.4 | In Progress | Normal | Refine Poset impl & doc | 21 Mar 2023 03:33 | 10 | |
| 659 | CoCoA-5.?.? | New | Low | Ring ID: separate index values for "system created rings"? | 23 Jan 2015 14:11 | 0 | |
| 1533 | CoCoA-5.4.2 | In Progress | Low | RingElem and IndetSymbols not compatible | 06 Nov 2020 13:56 | 10 | |
| 1403 | | In Progress | Normal | RingID: remove this function? | 24 Jan 2020 21:20 | 10 | |
| 1041 | CoCoA-5.4.2 | In Progress | Normal | Separators for elements of a list | 04 Jan 2024 10:14 | 10 | |
| 1581 | CoCoA-5.4.2 | New | Normal | Slow sqfr: rad(f) | 12 Oct 2021 09:22 | 0 | |
| 1578 | CoCoA-5.4.4 | New | Normal | SLUG: RationalSolve slow and stupid | 15 Jan 2024 19:27 | 0 | |
| 1262 | CoCoA-5.4.2 | In Progress | Normal | Split BuiltinFunctions-CoCoALib.C into smaller files | 03 Feb 2022 19:53 | 30 | |
| 1429 | CoCoA-5.4.2 | New | Normal | Stack overflow reading long list (SEGV) | 19 Apr 2021 14:14 | 0 | |
| 876 | CoCoA-5.?.? | New | Normal | subst: allowed also for indets in the coeff ring | 07 May 2016 13:59 | 0 | |
| 1634 | CoCoA-5.4.2 | New | Normal | Unexpected or unhelpful error using GroebnerFanIdeals | 23 Nov 2021 17:15 | 0 | |
| 646 | CoCoA-5.?.? | New | Normal | Unique copies of free modules? | 10 Nov 2014 16:42 | 0 | |
| 1496 | CoCoA-5.4.2 | In Progress | Low | Use "special" names for variables inside tests | 12 Nov 2021 10:06 | 10 | |

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| 657 | CoCoA-5.?.? | New | Low | use command, ring syntax, RingOf | 20 Jan 2015 20:32 | 0 | |
| 916 | CoCoA-5.?.? | New | Normal | use command: unhelpful error if you use := instead of ::= | 20 Oct 2020 17:50 | 0 | |
| 1631 | CoCoA-5.4.2 | New | Normal | Use filesystem::path instead of string (packageDir, CoCoAManFileName) | 14 Jan 2022 10:27 | 0 | |
| 610 | CoCoA-5.4.2 | New | Low | Variable lt: assign before or after printing | 04 Nov 2021 20:34 | 0 | |
| 1762 | CoCoA-5.4.4 | New | Normal | CoCoA web site "analytics" | 21 Aug 2023 18:20 | 10 | Anna Maria Bigatti |
| 1556 | CoCoA-5.4.2 | New | Normal | DivAlg slower than NR | 08 Jan 2021 11:20 | 10 | Anna Maria Bigatti |
| 600 | CoCoA-5.?.? | New | Normal | efficient subalgebras | 30 Jul 2014 17:29 | 0 | Anna Maria Bigatti |
| 865 | CoCoA-5.4.2 | New | Normal | Implicit: make easier to use with rational functions | 03 Feb 2022 19:20 | 0 | Anna Maria Bigatti |
| 1138 | CoCoA-5.?.? | New | Normal | Latex: matrix | 11 Dec 2017 16:45 | 0 | Anna Maria Bigatti |
| 1116 | CoCoA-5.?.? | New | Normal | Port RowMat, ColMat, MatByRows,... to CoCoA-5 | 01 Oct 2019 14:40 | 0 | Anna Maria Bigatti |
| 1681 | CoCoA-5.4.2 | In Progress | Normal | Should Starting be case-insensitive? | 22 Dec 2023 11:27 | 20 | Anna Maria Bigatti |
| 1731 | CoCoA-5.4.4 | In Progress | Normal | Verbosity level in CoCoA5 | 11 May 2023 07:34 | 70 | Anna Maria Bigatti |
| 1104 | CoCoA-5.4.2 | In Progress | Normal | Eigenvectors: inconsistent return type | 03 Feb 2022 19:20 | 10 | John Abbott |
| 1795 | CoCoA-5.4.2 | Feedback | Normal | Makefile problem: needlessly relinks CoCoAInterpreter | 18 Mar 2024 20:51 | 90 | John Abbott |

External Libs (3)

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|-----|-------------|-------------|--------|---|-------------------|----|-------------|
| 720 | CoCoA-5.?.? | New | Normal | External libs: specifying I/O streams (initialization?) | 22 May 2015 14:14 | 0 | |
| 709 | CoCoA-5.4.2 | In Progress | High | Speed of some Normaliz calls (NmzComputation) | 03 Feb 2022 19:23 | 10 | |
| 712 | CoCoA-5.?.? | In Progress | Normal | External Libs: missing dependencies in Makefiles | 01 Oct 2019 14:31 | 10 | John Abbott |

GUI (12)

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|-----|-------------|-----|--------|---|-------------------|---|--|
| 198 | CoCoA-5.?.? | New | Normal | Appunti per (eventuale) tesi triennale Informatica: CoCoA GUI | 30 Sep 2022 19:05 | 0 | |
| 136 | CoCoA-5.?.? | New | Normal | GUI: Add an edit menu to the top bar (CoCoA GUI on MacOS) | 02 Jul 2014 16:56 | 0 | |
| 527 | CoCoA-5.?.? | New | Normal | GUI: better name for the graphical interface? | 27 Jul 2015 19:25 | 0 | |
| 299 | CoCoA-5.?.? | New | Low | GUI: message "running.." (close to output window?) | 15 May 2020 10:56 | 0 | |
| 38 | CoCoA-5.?.? | New | Normal | GUI: open file "with C5" | 09 Apr 2014 15:00 | 0 | |
| 611 | CoCoA-5.?.? | New | Low | GUI: quitting provokes Imminent Disaster | 28 Feb 2024 21:24 | 0 | |
| 133 | CoCoA-5.?.? | New | Normal | Qt GUI: Make better distinction between input and output in the output window | 12 Mar 2021 09:39 | 0 | |
| 276 | CoCoA-5.?.? | New | Normal | TeXmacs interface | 09 Apr 2014 15:01 | 0 | |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|----------------------------------|----------------|-------------|-----------|---|-------------------|--------|--------------------|
| 1293 | CoCoA-5.4.2 | Resolved | Low | Vim Plugin for CoCoA | 24 Sep 2021 21:47 | 70 | |
| 1093 | CoCoA-5.?.? | In Progress | Low | GUI: bugs and slugs | 18 Aug 2022 15:36 | 10 | John Abbott |
| 1713 | CoCoA-5.?.? | In Progress | Low | Windows: Qt-Gui does not link correctly | 25 Feb 2024 20:42 | 50 | Nico Mexis |
| 1393 | CoCoA-5.4.2 | Feedback | Normal | GUI with Qt5 | 30 Nov 2022 22:07 | 90 | Ulrich von der Ohe |
| Incomplete function (5) | | | | | | | |
| 100 | CoCoA-5.?.? | New | Normal | BringIn should map only the indets in its arg | 26 Sep 2022 20:25 | 0 | |
| 920 | CoCoA-5.?.? | New | Normal | Empty matrix: warning, error, or empty matrix? | 08 Sep 2016 11:45 | 10 | |
| 1805 | CoCoA-5.4.4 | New | Normal | Add CoCoA-5 syntax: syz(<F,> list of ModuleElem) | 26 Mar 2024 12:16 | 0 | Anna Maria Bigatti |
| 106 | CoCoA-5.?.? | In Progress | Normal | !f (IDEAL and RINGELEM) -- operator colon | 02 Sep 2014 11:12 | 10 | Anna Maria Bigatti |
| 96 | CoCoA-5.?.? | New | Normal | sort is too slow | 28 May 2021 20:40 | 0 | John Abbott |
| Manual/documentation (36) | | | | | | | |
| 13 | CoCoA-5.?.? | New | Normal | (short) manual for emacs interface | 12 Oct 2016 16:56 | 0 | |
| 912 | CoCoA-5.4.2 | In Progress | Urgent | Add TUTORIALs to online manual | 17 Oct 2022 14:02 | 80 | |
| 1350 | CoCoA-5.4.2 | New | Normal | CoCoA manual: entry for operators, shortcuts | 05 Feb 2022 20:35 | 0 | |
| 1320 | CoCoA-5.4.2 | New | Normal | CoCoA-5 manual: incorrect empty line in syntax box (in PDF file) | 04 Nov 2021 23:16 | 0 | |
| 1079 | CoCoA-5.4.2 | In Progress | Normal | CoCoAManual: AffHilbertFn accepts also ideal (correct?) | 08 May 2023 20:44 | 20 | |
| 1054 | CoCoA-5.?.? | New | Normal | CoCoAManual: improved search, or improved selection of "see also" pages | 28 Apr 2017 11:42 | 0 | |
| 677 | CoCoA-5.?.? | New | Normal | Credits to CoCoA-5 contributors | 15 Nov 2019 15:28 | 0 | |
| 1765 | CoCoA-5.4.4 | New | Normal | Difference between seealso and keys? | 16 Oct 2023 20:02 | 0 | |
| 1621 | CoCoA-5.4.2 | New | Normal | Doc for the various BuiltIn files | 18 Oct 2021 11:26 | 0 | |
| 1480 | CoCoA-5.4.2 | New | Normal | Documentation for making ring with parameters | 03 Feb 2022 20:18 | 0 | |
| 1741 | CoCoA-5.4.2 | In Progress | High | Documentation/Manual for HilbertFn | 10 May 2023 20:49 | 20 | |
| 1314 | CoCoA-5.?.? | In Progress | Normal | Emacs UI: open manual pages in a separate frame? | 27 Sep 2019 17:23 | 10 | |
| 181 | CoCoA-5.4.2 | New | Low | Functions throwing error even though (trivially) defined | 04 Nov 2021 23:09 | 10 | |
| 1663 | CoCoA-5.4.2 | New | Normal | GCDList not documented | 31 May 2022 09:55 | 0 | |
| 1241 | CoCoA-5.4.2 | New | Normal | GDPR: website, mailing list | 05 Feb 2022 20:34 | 0 | |
| 1430 | CoCoA-5.4.2 | New | Normal | HTML manual: search using keywords? | 04 Nov 2021 23:17 | 0 | |
| 1534 | CoCoA-5.4.2 | In Progress | Immediate | Install CoCoA-5 on MacOS-10.15+ | 07 Oct 2022 14:35 | 50 | |
| 943 | CoCoA-5.?.? | In Progress | Normal | Managing credits | 16 May 2017 14:49 | 10 | |
| 1418 | CoCoA-5.4.2 | New | Normal | Manual entry for NewPolyRing | 03 Feb 2022 20:16 | 0 | |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|--------------------------------|----------------|-------------|----------|--|-------------------|--------|--------------------|
| 1686 | CoCoA-5.4.2 | New | Normal | Manual entry for random (see also) | 09 Jun 2022 20:49 | 0 | |
| 1636 | CoCoA-5.4.2 | In Progress | Normal | Missing/Incomplete manual entries | 30 Nov 2023 17:21 | 10 | |
| 1245 | CoCoA-5.4.2 | New | Normal | Online manual entry for RingElem needs to be improved | 03 Feb 2022 20:15 | 0 | |
| 1365 | CoCoA-5.4.2 | New | Normal | Package Edgeldeal not documented | 03 Feb 2022 20:16 | 0 | |
| 1031 | CoCoA-5.?.? | New | Normal | ScalarProduct: exact defn and manual page | 17 Mar 2017 11:03 | 0 | |
| 1252 | CoCoA-5.4.2 | New | Normal | ShapeLemma: no manual entry | 03 Feb 2022 20:16 | 0 | |
| 323 | CoCoA-5.?.? | New | Normal | system variables | 04 Apr 2014 17:06 | 0 | |
| 1707 | CoCoA-5.?.? | New | Normal | User forum? | 01 Nov 2022 22:02 | 0 | |
| 1566 | CoCoA-5.4.2 | New | Normal | What does rad do? | 21 Jan 2021 13:46 | 0 | |
| 1776 | | New | Normal | CoCoA-5 releases on redmine | 12 Jan 2024 11:53 | 70 | Anna Maria Bigatti |
| 177 | CoCoA-5.4.4 | In Progress | Normal | CoCoAManual: General part of the documentation is obsolete: update? discard? | 10 Mar 2023 17:02 | 70 | Anna Maria Bigatti |
| 557 | CoCoA-5.4.2 | New | Normal | CoCoAManual: improve part on input/output | 03 Feb 2022 20:15 | 0 | Anna Maria Bigatti |
| 296 | CoCoA-5.?.? | In Progress | Normal | Documentation for Parser/Interpreter | 09 Apr 2014 17:22 | 10 | Anna Maria Bigatti |
| 1454 | CoCoA-5.4.2 | New | Normal | Filenames in release CoCoAManual/html containing [obsolete] | 03 Feb 2022 20:17 | 0 | Anna Maria Bigatti |
| 322 | CoCoA-5.4.2 | In Progress | High | Installation instructions (on website) | 13 Jun 2022 15:32 | 60 | Anna Maria Bigatti |
| 1548 | CoCoA-5.4.2 | New | Normal | Man page for UniversalGBasis | 03 Feb 2022 20:18 | 0 | Anna Maria Bigatti |
| 1077 | CoCoA-5.4.4 | Resolved | Normal | Manual: remove old stuff about "devices" | 14 Mar 2023 22:02 | 70 | John Abbott |
| Parser/Interpreter (26) | | | | | | | |
| 597 | CoCoA-5.?.? | New | Normal | Interpreter.C: remove calls to WrongTypeException | 02 Mar 2020 21:45 | 0 | |
| 375 | CoCoA-5.?.? | New | Normal | allow single function call in "use" : e.g. "Use NewFractionField(R);" | 02 Sep 2014 11:14 | 0 | |
| 435 | CoCoA-5.?.? | New | Normal | Assignment to protected variable | 04 Apr 2014 17:05 | 0 | |
| 1759 | CoCoA-5.4.4 | New | Low | Better error mesg for 1.2.3.4? | 19 Mar 2024 20:05 | 0 | |
| 928 | CoCoA-5.?.? | New | Low | ciao, exit, quit can be used not only at top level | 18 Oct 2021 11:08 | 0 | |
| 1544 | CoCoA-5.4.2 | New | Normal | CoCoA coding conventions for parser/interpreter? | 11 Dec 2020 12:01 | 10 | |
| 1234 | CoCoA-5.?.? | In Progress | Normal | CoCoA should read unicode | 01 Oct 2019 14:36 | 0 | |
| 363 | CoCoA-5.?.? | New | Normal | Colon operator, 2nd arg | 09 Apr 2014 15:07 | 0 | |
| 1435 | CoCoA-5.4.2 | New | Normal | Disable readline if input is redirected | 04 Nov 2021 23:09 | 0 | |
| 95 | CoCoA-5.?.? | New | Normal | Error/warning if fn-proc is neither fn nor proc? | 15 Jun 2016 14:13 | 0 | |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|------|----------------|-------------|----------|---|-------------------|--------|--------------------|
| 1292 | CoCoA-5.4.2 | New | Normal | Interpreter: fns which accept INT or RAT | 03 Feb 2022 19:33 | 0 | |
| 749 | CoCoA-5.?.? | New | Normal | IsDefined does not follow reference to undefined optional param | 31 Jul 2015 12:08 | 0 | |
| 669 | CoCoA-5.?.? | New | Low | NUL char in input terminates CoCoA-5 | 04 Mar 2020 21:28 | 0 | |
| 97 | CoCoA-5.4.2 | New | Normal | OpenOFile | 20 Oct 2020 18:13 | 0 | |
| 1650 | CoCoA-5.4.2 | In Progress | Normal | Potentially confusing prompt: waiting for semicolon | 18 Mar 2024 21:14 | 10 | |
| 101 | CoCoA-5.?.? | New | Normal | rethrow in Try .. UponError .. EndTry | 23 Oct 2020 10:18 | 0 | |
| 1440 | CoCoA-5.4.2 | New | Low | Surprising parser error: INT+DOT+IDENTIFIER | 04 Nov 2021 23:10 | 0 | |
| 183 | CoCoA-5.?.? | New | Low | Template for unaryMinus? | 25 Jul 2018 17:15 | 0 | |
| 1603 | CoCoA-5.4.2 | New | Low | Unhelpful behaviour in "compatibility mode": double error mesg | 18 Mar 2024 21:20 | 0 | |
| 486 | CoCoA-5.?.? | New | Normal | Warning about variable hiding another -- too zealous | 01 Sep 2014 13:55 | 0 | |
| 915 | CoCoA-5.?.? | New | Low | When is a semicolon needed to end a statement/command? | 28 Feb 2024 21:27 | 0 | |
| 287 | CoCoA-5.?.? | New | Normal | --fullCoCoALibError prints too much (Try/UponError) | 02 Sep 2016 13:54 | 10 | Anna Maria Bigatti |
| 7 | CoCoA-5.4.2 | Resolved | High | Automatic mapping between (some) rings | 10 Mar 2023 17:08 | 80 | Anna Maria Bigatti |
| 946 | CoCoA-5.4.2 | Resolved | Urgent | Function "ideal" evaluates the argument twice | 23 Feb 2022 12:14 | 80 | Anna Maria Bigatti |
| 31 | CoCoA-5.4.2 | In Progress | Normal | theValue makes copy | 18 Feb 2022 16:42 | 60 | Anna Maria Bigatti |
| 290 | CoCoA-5.?.? | In Progress | Normal | Which functions are defined in CoCoALibSupplement? | 29 Mar 2019 19:23 | 20 | Anna Maria Bigatti |

Portability (5)

| | | | | | | | |
|------|-------------|-------------|--------|-------------------------------------|-------------------|----|--------------------|
| 83 | CoCoA-5.4.2 | In Progress | Normal | C++11 compatibility questions | 03 Feb 2022 19:59 | 40 | |
| 1006 | CoCoA-5.?.? | In Progress | Normal | External dependencies for building | 27 Oct 2021 13:13 | 10 | |
| 1146 | CoCoA-5.4.2 | New | Low | Use Flatpak and/or Snap on Linux? | 06 Oct 2020 15:55 | 0 | |
| 1373 | CoCoA-5.4.2 | In Progress | Normal | GFan also for Microsoft? | 17 Oct 2022 13:59 | 10 | Anna Maria Bigatti |
| 629 | CoCoA-5.?.? | In Progress | Normal | Windows-GUI: compilation with MinGW | 19 Mar 2024 22:21 | 20 | Anna Maria Bigatti |

Release (6)

| | | | | | | | |
|------|-------------|-------------|--------|---|-------------------|----|--|
| 1445 | CoCoA-5.4.2 | New | Normal | Automatic way to produce statically linked CoCoAInterpreter | 03 Feb 2022 19:38 | 0 | |
| 1708 | CoCoA-5.4.2 | New | Normal | Linux: just 1 executable, should be 2 (with & without readline) | 16 Nov 2022 15:45 | 0 | |
| 1701 | CoCoA-5.4.2 | In Progress | Normal | Preliminary packages | 18 Mar 2024 21:05 | 10 | |
| 1688 | CoCoA-5.4.2 | In Progress | Normal | Release CoCoA 5.4.2 | 14 Feb 2023 21:29 | 0 | |
| 1453 | CoCoA-5.4.2 | New | Normal | Use symbolic links for release files | 03 Feb 2022 19:39 | 0 | |

| # | Target version | Status | Priority | Subject | Updated | % Done | Assignee |
|---------------------|----------------|--------|----------|-----------------------------------|-------------------|--------|----------|
| 1474 | CoCoA-5.4.2 | New | High | Website: link to JSAG? | 16 Feb 2022 20:27 | 0 | |
| Renaming (1) | | | | | | | |
| 1456 | CoCoA-5.4.2 | New | Normal | IntersectList or IntersectionList | 15 Mar 2024 18:24 | 0 | |