

## CoCoA-5 - Issues

| #    | Project | Parent task | Priority | Subject                                                                | Assignee           | Updated           | Category                   | % Done |
|------|---------|-------------|----------|------------------------------------------------------------------------|--------------------|-------------------|----------------------------|--------|
| 1805 | CoCoA-5 |             | Normal   | Add CoCoA-5 syntax: syz(<F,> list of ModuleElem)                       | Anna Maria Bigatti | 26 Mar 2024 12:16 | Incomplete function        | 0      |
| 1781 | CoCoA-5 |             | Urgent   | GenReprCompute: SERIOUS ERROR                                          | Anna Maria Bigatti | 09 Feb 2024 08:16 | bug                        | 90     |
| 1776 | CoCoA-5 |             | Normal   | CoCoA-5 releases on redmine                                            | Anna Maria Bigatti | 12 Jan 2024 11:53 | Manual/documentation       | 70     |
| 1762 | CoCoA-5 |             | Normal   | CoCoA web site "analytics"                                             | Anna Maria Bigatti | 21 Aug 2023 18:20 | enhancing/improving        | 10     |
| 1751 | CoCoA-5 |             | Normal   | Manual of functions vs ManExamples                                     | Anna Maria Bigatti | 03 Jul 2023 20:54 |                            | 10     |
| 1746 | CoCoA-5 |             | Normal   | ManExamples target: need t reset VerbosityLevel                        | Anna Maria Bigatti | 22 Dec 2023 20:09 | Cleaning                   | 90     |
| 1734 | CoCoA-5 |             | Normal   | Fix call to HilbertPoly in test/TutHokkaido5                           | Anna Maria Bigatti | 12 Apr 2023 14:44 | bug                        | 100    |
| 1731 | CoCoA-5 |             | Normal   | Verbosity level in CoCoA5                                              | Anna Maria Bigatti | 11 May 2023 07:34 | enhancing/improving        | 70     |
| 1724 | CoCoA-5 |             | Normal   | New function: AdjacentMinors                                           | Anna Maria Bigatti | 14 Mar 2023 11:53 | CoCoA-5 function: new      | 100    |
| 1709 | CoCoA-5 |             | Normal   | Test tut-CoCoLA2                                                       | Anna Maria Bigatti | 19 Apr 2024 17:10 | bug                        | 100    |
| 1698 | CoCoA-5 |             | Normal   | indent: return a string?                                               | Anna Maria Bigatti | 15 Mar 2023 07:30 | enhancing/improving        | 100    |
| 1681 | CoCoA-5 |             | Normal   | Should Starting be case-insensitive?                                   | Anna Maria Bigatti | 22 Dec 2023 11:27 | enhancing/improving        | 20     |
| 1660 | CoCoA-5 |             | Normal   | Updating file obsolescent.cpkg5: make it easier                        | Anna Maria Bigatti | 14 Feb 2022 18:16 | Manual/documentation       | 100    |
| 1640 | CoCoA-5 |             | Normal   | MinSubsetOfGens does not find min subset                               | Anna Maria Bigatti | 21 Jan 2022 10:10 | bug                        | 100    |
| 1629 | CoCoA-5 |             | Normal   | RingElem slow with many indets                                         | Anna Maria Bigatti | 22 Dec 2023 20:06 | enhancing/improving        | 100    |
| 1623 | CoCoA-5 |             | Low      | EmacsUI: annoying colours                                              | Anna Maria Bigatti | 19 Jan 2024 16:50 | EmacsUI                    | 90     |
| 1616 | CoCoA-5 |             | Normal   | UnivariateIndetIndex: remove cocoa-5 implementation and use CoCoALib's | Anna Maria Bigatti | 19 Nov 2021 15:32 | enhancing/improving        | 100    |
| 1613 | CoCoA-5 |             | High     | CRASH with RingHom from FrF                                            | Anna Maria Bigatti | 10 Nov 2021 18:07 | Parser/Interpreter         | 100    |
| 1610 | CoCoA-5 |             | High     | IsInRadical: some more little bugs                                     | Anna Maria Bigatti | 12 Nov 2021 09:48 | bug                        | 100    |
| 1597 | CoCoA-5 |             | Normal   | GetRow/GetRows are extraordinarily slow                                | Anna Maria Bigatti | 14 Sep 2021 11:47 | enhancing/improving        | 100    |
| 1596 | CoCoA-5 |             | Normal   | Add CoCoA5 function NmzHilbertBasisKer                                 | Anna Maria Bigatti | 14 Mar 2023 14:59 | CoCoA-5 function: new      | 80     |
| 1594 | CoCoA-5 |             | High     | Parser bug: missing close square bracket                               | Anna Maria Bigatti | 14 Sep 2021 11:46 | Parser/Interpreter         | 100    |
| 1586 | CoCoA-5 |             | Normal   | Profiling with clang                                                   | Anna Maria Bigatti | 02 Apr 2021 09:28 |                            | 10     |
| 1577 | CoCoA-5 |             | Normal   | radical: lex order, ERROR: Ring is not standard graded                 | Anna Maria Bigatti | 19 Mar 2021 12:39 | bug                        | 100    |
| 1568 | CoCoA-5 |             | High     | RMap and image: obsolescent?                                           | Anna Maria Bigatti | 17 Oct 2022 14:04 | CoCoA-4 function: obsolete | 40     |
| 1556 | CoCoA-5 |             | Normal   | DivAlg slower than NR                                                  | Anna Maria Bigatti | 08 Jan 2021 11:20 | enhancing/improving        | 10     |
| 1549 | CoCoA-5 |             | Normal   | Add sagbi package                                                      | Anna Maria Bigatti | 18 Feb 2022 16:18 | CoCoA-5 function: new      | 10     |
| 1548 | CoCoA-5 |             | Normal   | Man page for UniversalGBasis                                           | Anna Maria Bigatti | 03 Feb 2022 20:18 | Manual/documentation       | 0      |
| 1546 | CoCoA-5 |             | Normal   | Improve 'describe' or 'print' for a function                           | Anna Maria Bigatti | 04 Mar 2021 17:27 | CoCoA-5 function: new      | 100    |
| 1543 | CoCoA-5 |             | High     | Default path for packages                                              | Anna Maria Bigatti | 08 Jan 2021 11:28 | Parser/Interpreter         | 100    |

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|------|---------|-------------|----------|------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 1539 | CoCoA-5 |             | High     | Website: installation instructions for Microsoft                 | Anna Maria Bigatti | 14 Mar 2023 11:56 | Manual/documentation         | 100    |
| 1530 | CoCoA-5 |             | Normal   | VersionInfo -- better field names?                               | Anna Maria Bigatti | 08 Jan 2021 11:24 | enhancing/improving          | 100    |
| 1525 | CoCoA-5 |             | Normal   | CoCoA Manual: homogenize obsolete/obsolescent entries            | Anna Maria Bigatti | 18 Feb 2022 17:01 | Manual/documentation         | 100    |
| 1509 | CoCoA-5 |             | Normal   | RingElems with empty input                                       | Anna Maria Bigatti | 08 Jan 2021 11:35 | bug                          | 100    |
| 1505 | CoCoA-5 |             | High     | EmacsUI: fix "Go to Error C-c C-p"                               | Anna Maria Bigatti | 14 Oct 2020 14:06 | EmacsUI                      | 100    |
| 1478 | CoCoA-5 |             | Normal   | HilbertBasis: clarify                                            | Anna Maria Bigatti | 23 Feb 2022 12:28 | Manual/documentation         | 100    |
| 1461 | CoCoA-5 |             | Normal   | Automatic mapping for multiplication?                            | Anna Maria Bigatti | 27 Oct 2020 19:08 | enhancing/improving          | 100    |
| 1454 | CoCoA-5 |             | Normal   | Filenames in release CoCoAManual/html containing [obsolete]      | Anna Maria Bigatti | 03 Feb 2022 20:17 | Manual/documentation         | 0      |
| 1451 | CoCoA-5 |             | High     | CoCoA Manual: make search keys public                            | Anna Maria Bigatti | 18 Feb 2022 17:13 | Manual/documentation         | 100    |
| 1450 | CoCoA-5 |             | Normal   | Release CoCoA-5.3.2                                              | Anna Maria Bigatti | 09 Oct 2020 14:17 | Release                      | 100    |
| 1439 | CoCoA-5 |             | Normal   | New function: LinearForm                                         | Anna Maria Bigatti | 20 Mar 2020 12:55 | CoCoA-5 function: new        | 100    |
| 1420 | CoCoA-5 |             | High     | IdealOfProjectivePoints and MinGens: problem with CoCoA_ASSERT   | Anna Maria Bigatti | 26 Feb 2020 16:59 | bug                          | 100    |
| 1415 | CoCoA-5 |             | Normal   | thmproving package                                               | Anna Maria Bigatti | 13 Jun 2022 15:31 | CoCoA-4 function to be added | 60     |
| 1410 | CoCoA-5 |             | High     | IsDivisible also for INT                                         | Anna Maria Bigatti | 13 Feb 2020 15:40 | enhancing/improving          | 100    |
| 1408 | CoCoA-5 |             | Normal   | CoCoAManual - tex: error if syntax is missing                    | Anna Maria Bigatti | 13 Feb 2020 18:59 | Manual/documentation         | 100    |
| 1407 | CoCoA-5 |             | Normal   | Tagged values (Hilbert Series)                                   | Anna Maria Bigatti | 18 Feb 2022 16:22 | bug                          | 100    |
| 1398 | CoCoA-5 |             | High     | Website: hide/delete all the CoCoA-4 stuff?                      | Anna Maria Bigatti | 12 Nov 2021 11:14 | Cleaning                     | 100    |
| 1397 | CoCoA-5 |             | Normal   | Crashes if CoCoAHelp.xml is missing                              | Anna Maria Bigatti | 12 Nov 2021 10:23 | bug                          | 100    |
| 1396 | CoCoA-5 |             | High     | Website: download page for CoCoA-4 burns CPU                     | Anna Maria Bigatti | 04 Mar 2021 17:15 | Cleaning                     | 100    |
| 1392 | CoCoA-5 |             | Normal   | ApproxSolve: another slow example                                | Anna Maria Bigatti | 24 Sep 2021 22:21 | enhancing/improving          | 100    |
| 1384 | CoCoA-5 |             | Normal   | NewPolyRing and SymbolRange                                      | Anna Maria Bigatti | 13 Feb 2020 09:29 | enhancing/improving          | 100    |
| 1374 | CoCoA-5 |             | Normal   | Add function power to CoCoA-5                                    | Anna Maria Bigatti | 13 Feb 2020 16:30 | CoCoA-5 function: new        | 100    |
| 1373 | CoCoA-5 |             | Normal   | GFan also for Microsoft?                                         | Anna Maria Bigatti | 17 Oct 2022 13:59 | Portability                  | 10     |
| 1372 | CoCoA-5 |             | Normal   | New function: find ?                                             | Anna Maria Bigatti | 04 Nov 2021 23:01 | CoCoA-5 function: new        | 10     |
| 1367 | CoCoA-5 |             | High     | CoCoA-5.3.0: release linked with more recent version of normaliz | Anna Maria Bigatti | 30 Apr 2020 15:43 | Release                      | 100    |
| 1348 | CoCoA-5 |             | Normal   | cocoa5 script for releases                                       | Anna Maria Bigatti | 09 Oct 2020 15:48 | enhancing/improving          | 100    |
| 1344 | CoCoA-5 |             | Normal   | Clean out OBSOLESCEMENT                                          | Anna Maria Bigatti | 14 Feb 2020 09:08 | Cleaning                     | 100    |
| 1333 | CoCoA-5 |             | Normal   | Typevectors                                                      | Anna Maria Bigatti | 30 Apr 2020 15:02 | Manual/documentation         | 100    |
| 1327 | CoCoA-5 |             | Normal   | Inconvenient PolyRingHom, PolyAlgebraHom                         | Anna Maria Bigatti | 13 Feb 2020 09:35 | enhancing/improving          | 100    |
| 1318 | CoCoA-5 |             | Normal   | Clean CoCoA-5/tests directory                                    | Anna Maria Bigatti | 26 Feb 2020 16:31 | Cleaning                     | 100    |
| 1312 | CoCoA-5 |             | Normal   | Wrong links on page about COCOA School in Sapporo                | Anna Maria Bigatti | 14 Feb 2020 10:51 | Manual/documentation         | 100    |

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| 1286 | CoCoA-5 |             | High     | Website: trouble with the world map                              | Anna Maria Bigatti | 14 Feb 2020 17:10 | bug                          | 100    |
| 1268 | CoCoA-5 |             | High     | Documentation for how to write a CoCoA package                   | Anna Maria Bigatti | 02 Mar 2022 16:14 | Manual/documentation         | 100    |
| 1258 | CoCoA-5 |             | Low      | Manual page for CantStop                                         | Anna Maria Bigatti | 09 Mar 2020 13:18 | Manual/documentation         | 100    |
| 1246 | CoCoA-5 |             | Urgent   | Revive old CoCoA4 package called "cocoa5.cpkg"                   | Anna Maria Bigatti | 14 Mar 2023 11:58 | CoCoA-4 function to be added | 90     |
| 1243 | CoCoA-5 |             | Normal   | New function: Read a string into a list (of RingElem) -- CoCoA-5 | Anna Maria Bigatti | 28 Feb 2020 17:52 | CoCoA-5 function: new        | 100    |
| 1239 | CoCoA-5 |             | High     | CartesianProductList: case of just 1 entry in list               | Anna Maria Bigatti | 04 Mar 2019 12:30 | bug                          | 100    |
| 1230 | CoCoA-5 |             | Normal   | PrimaryDecomposition with lex ordering                           | Anna Maria Bigatti | 13 Feb 2020 10:09 | Incomplete function          | 100    |
| 1226 | CoCoA-5 |             | Normal   | ExternalLibs return empty list                                   | Anna Maria Bigatti | 02 Oct 2019 16:22 | External Libs                | 100    |
| 1222 | CoCoA-5 |             | Normal   | Release CoCoA-5.3.0                                              | Anna Maria Bigatti | 30 Apr 2020 15:12 | Release                      | 100    |
| 1194 | CoCoA-5 |             | Normal   | Rename HilbertBasisKer into LinKerHilbertBasis?                  | Anna Maria Bigatti | 23 Feb 2022 12:37 | Renaming                     | 100    |
| 1190 | CoCoA-5 |             | High     | HilbertBasisKer: SEGV (again)                                    | Anna Maria Bigatti | 30 Jul 2018 14:15 | bug                          | 100    |
| 1189 | CoCoA-5 |             | High     | HilbertBasisKer: unhelpful error with some inputs                | Anna Maria Bigatti | 30 Jul 2018 14:17 | bug                          | 100    |
| 1174 | CoCoA-5 |             | High     | package of a function --> of an identifier!                      | Anna Maria Bigatti | 29 Jan 2021 15:43 | CoCoA-5 function: new        | 100    |
| 1172 | CoCoA-5 |             | Normal   | MinSubsetOfGens: problem with generators = 0                     | Anna Maria Bigatti | 30 Jul 2018 14:23 | bug                          | 100    |
| 1164 | CoCoA-5 |             | Normal   | Manual: loading manual entries written by users                  | Anna Maria Bigatti | 10 Oct 2019 19:26 | Manual/documentation         | 100    |
| 1153 | CoCoA-5 |             | Normal   | New function: gin for algebraic extensions                       | Anna Maria Bigatti | 25 Jul 2018 15:36 | CoCoA-5 function: new        | 0      |
| 1152 | CoCoA-5 |             | Normal   | Release: problems with sed                                       | Anna Maria Bigatti | 30 Jul 2018 14:46 | Release                      | 100    |
| 1148 | CoCoA-5 |             | Normal   | Release CoCoA-5.2.4                                              | Anna Maria Bigatti | 09 Aug 2018 10:35 | Release                      | 100    |
| 1142 | CoCoA-5 |             | Normal   | NewZZmod: port to CoCoA-5                                        | Anna Maria Bigatti | 16 Jan 2018 15:30 | CoCoA-5 function: new        | 100    |
| 1140 | CoCoA-5 |             | Normal   | ImplicitModular: too many bad primes                             | Anna Maria Bigatti | 16 Jan 2018 15:45 | bug                          | 100    |
| 1139 | CoCoA-5 |             | Urgent   | Radical problems                                                 | Anna Maria Bigatti | 13 Dec 2017 13:23 | enhancing/improving          | 100    |
| 1138 | CoCoA-5 |             | Normal   | Latex: matrix                                                    | Anna Maria Bigatti | 11 Dec 2017 16:45 | enhancing/improving          | 0      |
| 1137 | CoCoA-5 |             | Normal   | Latex: ideal                                                     | Anna Maria Bigatti | 12 Dec 2017 15:36 | enhancing/improving          | 100    |
| 1133 | CoCoA-5 |             | Normal   | Radical bug                                                      | Anna Maria Bigatti | 11 Dec 2017 19:19 | Incomplete function          | 100    |
| 1128 | CoCoA-5 |             | Normal   | HomomorphismFns.cpkg5 no longer needed?                          | Anna Maria Bigatti | 16 Jan 2018 15:28 | Cleaning                     | 100    |
| 1127 | CoCoA-5 |             | Normal   | subalgebra package obsolete?                                     | Anna Maria Bigatti | 16 Jan 2018 15:59 | Cleaning                     | 100    |
| 1123 | CoCoA-5 |             | Normal   | Should "minimalize" be obsolescent?                              | Anna Maria Bigatti | 11 Dec 2017 18:01 | CoCoA-4 function: obsolete   | 100    |
| 1122 | CoCoA-5 |             | Normal   | New fn: RandomLinearForm                                         | Anna Maria Bigatti | 30 Jul 2018 14:22 | CoCoA-5 function: new        | 100    |
| 1120 | CoCoA-5 |             | Normal   | Web site                                                         | Anna Maria Bigatti | 28 Feb 2020 17:08 | Release                      | 100    |
| 1119 | CoCoA-5 |             | High     | Mailing list for CoCoAUsers                                      | Anna Maria Bigatti | 16 Jan 2018 15:44 | Release                      | 100    |
| 1116 | CoCoA-5 |             | Normal   | Port RowMat, ColMat, MatByRows,... to CoCoA-5                    | Anna Maria Bigatti | 01 Oct 2019 14:40 | enhancing/improving          | 0      |
| 1114 | CoCoA-5 |             | Low      | Some other examples for 0-dim radical                            | Anna Maria Bigatti | 31 Jul 2018 12:03 | enhancing/improving          | 100    |

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|------|---------|-------------|----------|-----------------------------------------------------------------------------------|--------------------|-------------------|-----------------------|--------|
| 1112 | CoCoA-5 |             | Normal   | New function: IsEmpty                                                             | Anna Maria Bigatti | 22 Dec 2023 19:21 | CoCoA-5 function: new | 100    |
| 1111 | CoCoA-5 |             | Normal   | CoCoAManual: searching for ?? mat and for ?? matrix give different results        | Anna Maria Bigatti | 15 May 2020 13:56 | Manual/documentation  | 100    |
| 1107 | CoCoA-5 |             | Normal   | CoCoA Online: install (using InteractiveShell)                                    | Anna Maria Bigatti | 16 Oct 2017 16:54 | CoCoA-5 function: new | 10     |
| 1100 | CoCoA-5 |             | High     | PrimaryDecomposition0: says not 0-dim but IsZeroDim says ideal is zero-dim!       | Anna Maria Bigatti | 11 Dec 2017 17:53 | enhancing/improving   | 100    |
| 1091 | CoCoA-5 |             | Normal   | ExternalLib-MathSAT: (first) prototype CoCoA-5 interface for MathSAT              | Anna Maria Bigatti | 11 Dec 2017 17:58 | CoCoA-5 function: new | 100    |
| 1080 | CoCoA-5 |             | High     | intersect: problem with zero generators                                           | Anna Maria Bigatti | 11 Dec 2017 17:41 | Incomplete function   | 100    |
| 1075 | CoCoA-5 |             | Low      | LaTeX package: power-product printing                                             | Anna Maria Bigatti | 22 Dec 2023 19:30 | enhancing/improving   | 100    |
| 1074 | CoCoA-5 |             | High     | CoCoAManual: entry for radical                                                    | Anna Maria Bigatti | 15 Dec 2017 15:41 | Manual/documentation  | 100    |
| 1073 | CoCoA-5 |             | Normal   | RelNotes: current version or all previous versions?                               | Anna Maria Bigatti | 15 Dec 2017 15:57 | Manual/documentation  | 100    |
| 1072 | CoCoA-5 |             | Normal   | syz: apply to ModuleElem?                                                         | Anna Maria Bigatti | 26 Mar 2024 17:12 | enhancing/improving   | 100    |
| 1062 | CoCoA-5 |             | Normal   | IsRadical bug?                                                                    | Anna Maria Bigatti | 10 Nov 2017 12:18 | Incomplete function   | 100    |
| 1061 | CoCoA-5 |             | High     | Release: CoCoA-5.2.2                                                              | Anna Maria Bigatti | 17 Jan 2018 12:05 | Release               | 100    |
| 1055 | CoCoA-5 |             | Normal   | CoCoAManual: duplication (2 pages for operators)                                  | Anna Maria Bigatti | 11 Dec 2017 17:10 | Manual/documentation  | 100    |
| 1051 | CoCoA-5 |             | Normal   | ReadExpr(P, string) and RingElem(P, string)                                       | Anna Maria Bigatti | 28 Apr 2017 19:06 | enhancing/improving   | 100    |
| 1047 | CoCoA-5 |             | High     | NewPolyRing with user defined ordering is slower than CoCoALib                    | Anna Maria Bigatti | 01 May 2017 10:43 | enhancing/improving   | 100    |
| 1046 | CoCoA-5 |             | Low      | CoCoA-5 no longer lists the external libs present                                 | Anna Maria Bigatti | 27 Apr 2017 15:38 | Manual/documentation  | 100    |
| 1045 | CoCoA-5 |             | Normal   | Error message from cocoalib to cocoa-5                                            | Anna Maria Bigatti | 28 Apr 2017 19:21 | Parser/Interpreter    | 100    |
| 1044 | CoCoA-5 |             | Normal   | New function: SectionalMatrix, PrintSectionalMatrix                               | Anna Maria Bigatti | 10 Apr 2017 17:55 | CoCoA-5 function: new | 100    |
| 1043 | CoCoA-5 |             | Normal   | New function: IsCoprime                                                           | Anna Maria Bigatti | 28 Apr 2017 19:21 | CoCoA-5 function: new | 100    |
| 1040 | CoCoA-5 |             | High     | CoCoAManual: entry for SetVerbosityLevel/VerbosityLevel                           | Anna Maria Bigatti | 27 Apr 2017 15:20 | Manual/documentation  | 100    |
| 1038 | CoCoA-5 |             | Normal   | Emacs: sent interrupt to CoCoA                                                    | Anna Maria Bigatti | 26 Apr 2017 17:20 | EmacsUI               | 100    |
| 1027 | CoCoA-5 |             | Normal   | CoCoAManual: add a page with some emacs hints?                                    | Anna Maria Bigatti | 09 Mar 2020 15:36 | Manual/documentation  | 100    |
| 1024 | CoCoA-5 |             | Low      | CoCoA Manual: consistent spacing in VarName: TYPE                                 | Anna Maria Bigatti | 10 Oct 2019 18:24 | Manual/documentation  | 100    |
| 1023 | CoCoA-5 |             | Normal   | CoCoAManual for verbosity: how to find which levels? how to find which functions? | Anna Maria Bigatti | 12 Dec 2017 11:01 | Manual/documentation  | 100    |
| 1020 | CoCoA-5 |             | Normal   | Rename minimalized(I) into IdealOfMinGens(I)?                                     | Anna Maria Bigatti | 20 Nov 2017 15:47 | Renaming              | 90     |
| 1017 | CoCoA-5 |             | Normal   | New function: SetGBasisAsGens [--> NO: use IdealOfGBasis]                         | Anna Maria Bigatti | 10 Apr 2017 17:43 | CoCoA-5 function: new | 100    |
| 1000 | CoCoA-5 |             | High     | CoCoAManual for "all cocoa commands"                                              | Anna Maria Bigatti | 15 Dec 2017 16:20 | Manual/documentation  | 100    |
| 996  | CoCoA-5 |             | High     | New function: IdealOfGBasis                                                       | Anna Maria Bigatti | 29 Apr 2017 08:34 | CoCoA-5 function: new | 100    |
| 994  | CoCoA-5 |             | Urgent   | SEGV: Toric example from Kazuki Maeda                                             | Anna Maria Bigatti | 07 Apr 2017 09:48 | enhancing/improving   | 100    |

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|-----|---------|-------------|----------|-----------------------------------------------------------------------------|--------------------|-------------------|-----------------------|--------|
| 985 | CoCoA-5 |             | Normal   | Microsoft (Windows 10, maybe other versions): more help for installation    | Anna Maria Bigatti | 16 Feb 2022 20:26 | EmacsUI               | 10     |
| 973 | CoCoA-5 |             | High     | GroebnerFanIdeals: verbosity and output style                               | Anna Maria Bigatti | 28 Apr 2017 15:14 | enhancing/improving   | 100    |
| 965 | CoCoA-5 |             | Normal   | New function: multigraded BettiNumbers                                      | Anna Maria Bigatti | 10 Apr 2017 17:39 | CoCoA-5 function: new | 100    |
| 964 | CoCoA-5 |             | Normal   | New function: MakeMultiset?                                                 | Anna Maria Bigatti | 25 Jul 2018 15:35 | CoCoA-5 function: new | 0      |
| 963 | CoCoA-5 |             | High     | Manual: XML problem with html doc                                           | Anna Maria Bigatti | 26 Apr 2017 16:00 | Manual/documentation  | 100    |
| 959 | CoCoA-5 |             | Normal   | New function: SymmetricPolys                                                | Anna Maria Bigatti | 01 Mar 2017 14:10 | CoCoA-5 function: new | 100    |
| 954 | CoCoA-5 |             | Normal   | New function: StdBasis (standard basis)                                     | Anna Maria Bigatti | 01 Mar 2017 14:11 | CoCoA-5 function: new | 100    |
| 948 | CoCoA-5 |             | Normal   | radical is slow (compared to singular) on these examples                    | Anna Maria Bigatti | 22 Dec 2023 20:12 | enhancing/improving   | 100    |
| 946 | CoCoA-5 |             | Urgent   | Function "ideal" evaluates the argument twice                               | Anna Maria Bigatti | 23 Feb 2022 12:14 | Parser/Interpreter    | 80     |
| 929 | CoCoA-5 |             | Normal   | Clean up CoCoALibSupplement                                                 | Anna Maria Bigatti | 03 Feb 2022 19:48 | Cleaning              | 20     |
| 922 | CoCoA-5 |             | Normal   | Release for MacOS: compilation on 10.11 incompatible with 10.6.8            | Anna Maria Bigatti | 09 Feb 2022 19:41 | Portability           | 100    |
| 918 | CoCoA-5 |             | Normal   | UniversalGBasis: sometimes gives error                                      | Anna Maria Bigatti | 12 Oct 2016 15:01 | Incomplete function   | 100    |
| 907 | CoCoA-5 |             | Normal   | ApproxSolve very slow on this example                                       | Anna Maria Bigatti | 06 Aug 2018 16:22 | enhancing/improving   | 100    |
| 903 | CoCoA-5 |             | Normal   | New function CallOnGroebnerFanIdeals: call function on GFan ideals          | Anna Maria Bigatti | 26 Apr 2017 19:04 | CoCoA-5 function: new | 100    |
| 883 | CoCoA-5 |             | Normal   | gin: return/print a suitable change of variables                            | Anna Maria Bigatti | 26 Apr 2017 17:25 | enhancing/improving   | 100    |
| 880 | CoCoA-5 |             | Normal   | subst should check that indet is in same ring as 1st arg, but does not.     | Anna Maria Bigatti | 01 Mar 2017 13:34 | Incomplete function   | 100    |
| 878 | CoCoA-5 |             | Normal   | RingElem applied to a symbol (repr as a string)                             | Anna Maria Bigatti | 27 Apr 2017 14:34 | enhancing/improving   | 100    |
| 870 | CoCoA-5 |             | Urgent   | GBasis of product of ideals is wrong (Vadim Tropashko) --> l.myReset()      | Anna Maria Bigatti | 26 Apr 2017 15:56 | enhancing/improving   | 100    |
| 868 | CoCoA-5 |             | Normal   | Der, Bin: why the capital letter?                                           | Anna Maria Bigatti | 28 Apr 2017 09:24 | Renaming              | 100    |
| 865 | CoCoA-5 |             | Normal   | Implicit: make easier to use with rational functions                        | Anna Maria Bigatti | 03 Feb 2022 19:20 | enhancing/improving   | 0      |
| 863 | CoCoA-5 |             | High     | CoCoA-5 manual: IsInteger and IsRational are missing?                       | Anna Maria Bigatti | 27 Apr 2017 15:03 | Manual/documentation  | 100    |
| 852 | CoCoA-5 |             | Normal   | fix OnlineManual.C so that version number may be removed from CoCoAHelp.xml | Anna Maria Bigatti | 01 Mar 2017 13:31 | Release               | 100    |
| 851 | CoCoA-5 |             | High     | Release: CoCoA-5.2.0                                                        | Anna Maria Bigatti | 08 May 2017 11:57 | Release               | 100    |
| 844 | CoCoA-5 |             | Normal   | IsMaximal, IsPrimary for IDEAL (in cocoa language)                          | Anna Maria Bigatti | 16 Feb 2016 17:43 | CoCoA-5 function: new | 100    |
| 843 | CoCoA-5 |             | Urgent   | Release: CoCoA-5.1.3 and CoCoA-5.1.4                                        | Anna Maria Bigatti | 04 Dec 2017 11:46 | Release               | 100    |
| 823 | CoCoA-5 |             | Normal   | NewPolyRing with weights -- better interface?                               | Anna Maria Bigatti | 18 Mar 2024 21:39 | enhancing/improving   | 100    |
| 782 | CoCoA-5 |             | Normal   | BuiltinFunctions -- getting too long again!                                 | Anna Maria Bigatti | 16 Feb 2016 17:58 | Parser/Interpreter    | 100    |
| 766 | CoCoA-5 |             | Normal   | CoCoA version number: copy CoCoALib                                         | Anna Maria Bigatti | 02 May 2017 14:42 | Release               | 100    |

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|-----|---------|-------------|----------|------------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 751 | CoCoA-5 |             | Normal   | description of a RING                                                        | Anna Maria Bigatti | 05 May 2017 16:07 | enhancing/improving          | 100    |
| 732 | CoCoA-5 |             | Normal   | Primary Decomposition in CoCoA-5: port Luis Garcia's package(cocoa-4)        | Anna Maria Bigatti | 30 Jun 2015 15:20 | CoCoA-4 function to be added | 100    |
| 717 | CoCoA-5 |             | Normal   | CoCoAManual: improve part on RINGHOM                                         | Anna Maria Bigatti | 29 Jul 2015 16:25 | Manual/documentation         | 100    |
| 711 | CoCoA-5 |             | Normal   | External Libs: print credits?                                                | Anna Maria Bigatti | 28 Apr 2017 14:49 | External Libs                | 100    |
| 706 | CoCoA-5 |             | Normal   | meaningful error for IDEAL <= IDEAL                                          | Anna Maria Bigatti | 28 Jul 2015 14:32 | Parser/Interpreter           | 100    |
| 704 | CoCoA-5 |             | Normal   | rename MinGensGeneral?                                                       | Anna Maria Bigatti | 29 Jul 2015 16:15 | Renaming                     | 100    |
| 702 | CoCoA-5 |             | Normal   | Add more operations for modules                                              | Anna Maria Bigatti | 15 May 2015 09:05 | CoCoA-4 function to be added | 0      |
| 700 | CoCoA-5 |             | Normal   | Which external libs are present?                                             | Anna Maria Bigatti | 18 Feb 2016 15:52 | CoCoA-5 function: new        | 100    |
| 699 | CoCoA-5 |             | Normal   | Emacs UI: set back "cocoa5-executable" to "CoCoAInterpreter"?                | Anna Maria Bigatti | 18 May 2015 17:10 | EmacsUI                      | 100    |
| 698 | CoCoA-5 |             | Normal   | Emacs UI: problems with packages on windows                                  | Anna Maria Bigatti | 16 Feb 2016 17:50 | EmacsUI                      | 100    |
| 697 | CoCoA-5 |             | Normal   | Interpreter: Avoid outputting an empty line after each line of input         | Anna Maria Bigatti | 11 Dec 2017 17:08 | Parser/Interpreter           | 100    |
| 671 | CoCoA-5 |             | Low      | Emacs UI: swapped splitting                                                  | Anna Maria Bigatti | 09 Mar 2015 13:49 | EmacsUI                      | 0      |
| 668 | CoCoA-5 |             | Normal   | Remove keyword "weights"?                                                    | Anna Maria Bigatti | 27 Jul 2015 15:16 | Parser/Interpreter           | 100    |
| 650 | CoCoA-5 |             | High     | CoCoA-5 test (SourceAnna); problem in HilbertPoly                            | Anna Maria Bigatti | 23 Mar 2016 10:18 | enhancing/improving          | 100    |
| 643 | CoCoA-5 |             | Normal   | GenRepr fails if there are zero generators                                   | Anna Maria Bigatti | 26 Jun 2015 12:13 | Incomplete function          | 100    |
| 629 | CoCoA-5 |             | Normal   | Windows-GUI: compilation with MinGW                                          | Anna Maria Bigatti | 19 Mar 2024 22:21 | Portability                  | 20     |
| 622 | CoCoA-5 |             | Urgent   | New function: RandomSubset                                                   | Anna Maria Bigatti | 30 Jun 2015 14:19 | CoCoA-5 function: new        | 100    |
| 616 | CoCoA-5 |             | Normal   | Release: CoCoA-5.1.2                                                         | Anna Maria Bigatti | 16 Feb 2016 17:31 | Release                      | 100    |
| 614 | CoCoA-5 |             | Normal   | Add functions based on MayerVietorisTree                                     | Anna Maria Bigatti | 04 Sep 2014 14:05 | CoCoA-4 function to be added | 10     |
| 609 | CoCoA-5 |             | Normal   | Package "empty.cpkg5"                                                        | Anna Maria Bigatti | 03 Sep 2014 13:39 | Manual/documentation         | 100    |
| 606 | CoCoA-5 |             | Normal   | Evaluate in ring operator (was called :: in CoCoA-4)                         | Anna Maria Bigatti | 16 Feb 2022 20:02 | CoCoA-4 function to be added | 100    |
| 605 | CoCoA-5 |             | Normal   | Release: CoCoA-5.1.1                                                         | Anna Maria Bigatti | 15 Sep 2014 18:06 | Release                      | 100    |
| 603 | CoCoA-5 |             | Normal   | Resume CheckArgTypes                                                         | Anna Maria Bigatti | 05 Sep 2014 11:28 | CoCoA-4 function to be added | 100    |
| 600 | CoCoA-5 |             | Normal   | efficient subalgebras                                                        | Anna Maria Bigatti | 30 Jul 2014 17:29 | enhancing/improving          | 0      |
| 596 | CoCoA-5 |             | Normal   | function "packages"                                                          | Anna Maria Bigatti | 24 Jul 2014 09:56 | CoCoA-4 function to be added | 100    |
| 595 | CoCoA-5 |             | High     | rename BigIntValue, IdealValue --> INTValue, IDEALValue? or even INT, IDEAL? | Anna Maria Bigatti | 04 Sep 2014 13:33 | Parser/Interpreter           | 100    |
| 594 | CoCoA-5 |             | Normal   | CharPoly(MAT) and MinPoly(MAT) work in different settings: unify behaviour   | Anna Maria Bigatti | 02 Sep 2014 11:03 | Incomplete function          | 100    |
| 590 | CoCoA-5 |             | Normal   | package for subalgebras                                                      | Anna Maria Bigatti | 26 Jun 2015 16:58 | CoCoA-4 function to be added | 100    |
| 588 | CoCoA-5 |             | Normal   | Resume code for "gin" (generic initial ideal)                                | Anna Maria Bigatti | 15 Sep 2014 18:28 | CoCoA-4 function to be added | 100    |

| #   | Project | Parent task | Priority | Subject                                                                                              | Assignee           | Updated           | Category                     | % Done |
|-----|---------|-------------|----------|------------------------------------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 567 | CoCoA-5 |             | Normal   | Emacs UI: coloured syntax in output buffer has problems if error message shows a single double-quote | Anna Maria Bigatti | 02 Jul 2014 16:11 | EmacsUI                      | 100    |
| 561 | CoCoA-5 |             | Normal   | Emacs UI: unrecognized keywords (ImportByValue...)                                                   | Anna Maria Bigatti | 02 Sep 2014 11:21 | EmacsUI                      | 100    |
| 559 | CoCoA-5 |             | Normal   | Release: CoCoA-5.1.0                                                                                 | Anna Maria Bigatti | 14 Jul 2014 18:17 | Release                      | 100    |
| 558 | CoCoA-5 |             | High     | CoCoAManual: semi-automatic check of all input                                                       | Anna Maria Bigatti | 01 Aug 2014 10:57 | Manual/documentation         | 100    |
| 557 | CoCoA-5 |             | Normal   | CoCoAManual: improve part on input/output                                                            | Anna Maria Bigatti | 03 Feb 2022 20:15 | Manual/documentation         | 0      |
| 556 | CoCoA-5 |             | Normal   | CoCoAManual: improve part on tagging                                                                 | Anna Maria Bigatti | 04 Sep 2014 18:31 | Manual/documentation         | 100    |
| 555 | CoCoA-5 |             | Normal   | CoCoAManual: improve part on language                                                                | Anna Maria Bigatti | 02 Jul 2014 16:40 | Manual/documentation         | 100    |
| 548 | CoCoA-5 |             | Normal   | Printing rings with ID                                                                               | Anna Maria Bigatti | 29 Jul 2015 12:43 | Incomplete function          | 100    |
| 546 | CoCoA-5 |             | Normal   | ideal wants LIST of RINGELEM                                                                         | Anna Maria Bigatti | 02 Sep 2014 11:08 | Cleaning                     | 100    |
| 543 | CoCoA-5 |             | Normal   | Interpreter: problem when calling the manual with trailing spaces and comments                       | Anna Maria Bigatti | 27 Aug 2014 18:19 | Manual/documentation         | 100    |
| 542 | CoCoA-5 |             | Normal   | CoCoAManual: improve part on data-types                                                              | Anna Maria Bigatti | 02 Jul 2014 16:40 | Manual/documentation         | 100    |
| 531 | CoCoA-5 |             | Normal   | Package protected variables should know which package protected them                                 | Anna Maria Bigatti | 14 May 2021 17:37 | Parser/Interpreter           | 100    |
| 529 | CoCoA-5 |             | High     | Naive version of resolution and Betti numbers                                                        | Anna Maria Bigatti | 09 May 2014 12:56 | CoCoA-4 function to be added | 100    |
| 525 | CoCoA-5 |             | Normal   | BuiltInFunctions: evalArgAsT1OrT2, evalArgAsT1OrT2OrT3, ... last argument                            | Anna Maria Bigatti | 27 Aug 2014 18:09 | Cleaning                     | 100    |
| 524 | CoCoA-5 |             | High     | BuiltInFunctions: remove calls to WrongTypeException                                                 | Anna Maria Bigatti | 28 Jul 2014 11:48 | Parser/Interpreter           | 100    |
| 523 | CoCoA-5 |             | Normal   | EmacsUI: lower case keywords                                                                         | Anna Maria Bigatti | 07 May 2014 14:05 | EmacsUI                      | 100    |
| 522 | CoCoA-5 |             | Normal   | Manual: duplication in "see also" and "All other matches"                                            | Anna Maria Bigatti | 29 Jul 2015 16:21 | Manual/documentation         | 100    |
| 519 | CoCoA-5 |             | Normal   | GUI: fix DEFINES in makefile                                                                         | Anna Maria Bigatti | 14 Feb 2020 09:22 | GUI                          | 100    |
| 518 | CoCoA-5 |             | Normal   | incr/decr functions: to be used in packages                                                          | Anna Maria Bigatti | 15 Sep 2014 18:27 | Cleaning                     | 100    |
| 514 | CoCoA-5 |             | Normal   | submodule: minimize, minimized                                                                       | Anna Maria Bigatti | 09 May 2014 13:28 | Incomplete function          | 100    |
| 512 | CoCoA-5 |             | Normal   | Resurrect MakeCheck()                                                                                | Anna Maria Bigatti | 28 Jul 2014 16:20 | CoCoA-4 function to be added | 0      |
| 509 | CoCoA-5 |             | High     | SyzOfGens (CoCoA-5) does not have correct shifts                                                     | Anna Maria Bigatti | 10 Apr 2014 18:02 | Incomplete function          | 100    |
| 503 | CoCoA-5 |             | High     | CoCoA website: CoCoA-5.0.9 pages                                                                     | Anna Maria Bigatti | 11 Apr 2014 14:55 | Release                      | 100    |
| 502 | CoCoA-5 |             | Normal   | New fn/object type: timer                                                                            | Anna Maria Bigatti | 02 May 2014 16:49 | CoCoA-5 function: new        | 100    |
| 501 | CoCoA-5 |             | Normal   | Toric: resurrect function TestSet (and find better name for it?)                                     | Anna Maria Bigatti | 09 Apr 2014 15:53 | CoCoA-4 function to be added | 0      |
| 494 | CoCoA-5 |             | Normal   | Emacs UI: installation on Mac OS 10.8.5                                                              | Anna Maria Bigatti | 09 May 2014 13:20 | EmacsUI                      | 100    |
| 493 | CoCoA-5 |             | Normal   | Cleanup Hilbert package hp.cpkg5                                                                     | Anna Maria Bigatti | 31 Jul 2014 15:06 | Cleaning                     | 100    |
| 488 | CoCoA-5 |             | Normal   | CoCoAManual: Help page for porting old C4 code to C5                                                 | Anna Maria Bigatti | 04 Sep 2014 12:29 | Manual/documentation         | 100    |
| 484 | CoCoA-5 |             | Normal   | Evaluate in other ring (was called :: in CoCoA-4)                                                    | Anna Maria Bigatti | 11 Sep 2014 17:43 | CoCoA-4 function to be added | 100    |
| 476 | CoCoA-5 |             | Low      | Review utility of package IO                                                                         | Anna Maria Bigatti | 03 Feb 2022 19:09 | Cleaning                     | 40     |

| #   | Project | Parent task | Priority | Subject                                                                      | Assignee           | Updated           | Category                     | % Done |
|-----|---------|-------------|----------|------------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 474 | CoCoA-5 |             | Urgent   | Eliminate package BinRepr                                                    | Anna Maria Bigatti | 03 Feb 2022 19:47 | Cleaning                     | 50     |
| 466 | CoCoA-5 |             | Normal   | CoCoAManual: add entry summarising syntax of all CoCoA-5 commands            | Anna Maria Bigatti | 29 Jul 2015 12:12 | Manual/documentation         | 100    |
| 464 | CoCoA-5 |             | Normal   | Emacs UI: split horizontally instead of vertically?                          | Anna Maria Bigatti | 03 Sep 2014 13:40 | EmacsUI                      | 100    |
| 460 | CoCoA-5 |             | Normal   | Emacs UI: updating abbrev-table                                              | Anna Maria Bigatti | 14 May 2014 16:30 | EmacsUI                      | 100    |
| 456 | CoCoA-5 |             | Normal   | CoCoAManual: New structure for manual?                                       | Anna Maria Bigatti | 05 Sep 2014 11:38 | Manual/documentation         | 100    |
| 449 | CoCoA-5 |             | Low      | Emacs UI: names of emacs fns                                                 | Anna Maria Bigatti | 02 Apr 2014 18:36 | Renaming                     | 100    |
| 447 | CoCoA-5 |             | Urgent   | CoCoA-5.0.3 Microsoft std::bad_alloc                                         | Anna Maria Bigatti | 22 May 2014 17:20 | Portability                  | 100    |
| 446 | CoCoA-5 |             | Urgent   | intersection fails with zero ideal                                           | Anna Maria Bigatti | 02 Apr 2014 18:35 | Incomplete function          | 100    |
| 439 | CoCoA-5 |             | Normal   | CoCoA website: download pages and installing instructions                    | Anna Maria Bigatti | 11 Dec 2017 18:14 | Manual/documentation         | 100    |
| 424 | CoCoA-5 |             | Low      | Emacs UI: Name of emacs init file                                            | Anna Maria Bigatti | 22 Jul 2014 11:21 | EmacsUI                      | 10     |
| 423 | CoCoA-5 |             | Normal   | Emacs UI: semicolon does not work in emacs-24.3                              | Anna Maria Bigatti | 02 Apr 2014 18:34 | EmacsUI                      | 100    |
| 418 | CoCoA-5 |             | Urgent   | What does interreduce do?                                                    | Anna Maria Bigatti | 02 Apr 2014 18:30 | Incomplete function          | 100    |
| 412 | CoCoA-5 |             | Normal   | intersection (all lower case)                                                | Anna Maria Bigatti | 28 Jul 2014 17:41 | CoCoA-4 function to be added | 20     |
| 406 | CoCoA-5 |             | Normal   | Manual for CoCoAManual/CoCoAHelp.xml                                         | Anna Maria Bigatti | 13 Jun 2022 15:33 | Manual/documentation         | 100    |
| 405 | CoCoA-5 |             | Normal   | ReducedGBasis not memorized in an ideal                                      | Anna Maria Bigatti | 28 Apr 2017 09:14 | Incomplete function          | 100    |
| 398 | CoCoA-5 |             | High     | Resurrect Relnotes()                                                         | Anna Maria Bigatti | 02 Jul 2014 11:43 | Release                      | 100    |
| 397 | CoCoA-5 |             | Normal   | EMACS UI: fix windows splitting                                              | Anna Maria Bigatti | 02 Jul 2014 16:03 | EmacsUI                      | 100    |
| 395 | CoCoA-5 |             | Normal   | Naming conventions: upper or lower case?                                     | Anna Maria Bigatti | 14 Apr 2014 09:00 | Renaming                     | 100    |
| 393 | CoCoA-5 |             | Normal   | add Value::from(HPSeries)                                                    | Anna Maria Bigatti | 01 Aug 2013 07:35 | Parser/Interpreter           | 100    |
| 392 | CoCoA-5 |             | Normal   | add Value::from(factorization<..>)                                           | Anna Maria Bigatti | 01 Aug 2013 07:32 | Parser/Interpreter           | 100    |
| 388 | CoCoA-5 |             | High     | port optimized resolutions to CoCoA-5                                        | Anna Maria Bigatti | 02 Jul 2014 16:13 | CoCoA-4 function to be added | 0      |
| 384 | CoCoA-5 |             | Normal   | IsZero for matrix                                                            | Anna Maria Bigatti | 07 May 2014 14:01 | Incomplete function          | 100    |
| 381 | CoCoA-5 |             | Normal   | Emacs User Interface: Easier binding for sending a line to cocoa-5           | Anna Maria Bigatti | 07 May 2014 13:57 | EmacsUI                      | 100    |
| 380 | CoCoA-5 |             | Normal   | Add Frobby functions to cocoa-5                                              | Anna Maria Bigatti | 24 Feb 2014 18:15 | CoCoA-5 function: new        | 100    |
| 378 | CoCoA-5 |             | Normal   | Ungraceful behaviour: Source inside For loop                                 | Anna Maria Bigatti | 27 Aug 2014 18:06 | Parser/Interpreter           | 100    |
| 376 | CoCoA-5 |             | Normal   | Hilbert: Redesign hp.cpkg5 and public functions in TmpHilbert.C              | Anna Maria Bigatti | 06 Aug 2020 12:21 | Cleaning                     | 10     |
| 370 | CoCoA-5 |             | Normal   | OnlineHelp: Problem with "><" in syntax of CartesianProduct                  | Anna Maria Bigatti | 21 Mar 2014 11:30 | Manual/documentation         | 100    |
| 369 | CoCoA-5 |             | Normal   | write documentation for TgCone and other function from the "primary" package | Anna Maria Bigatti | 07 May 2014 14:07 | Manual/documentation         | 100    |
| 368 | CoCoA-5 |             | Normal   | port SmithNormalForm (CoCoA-4)package to CoCoA-5                             | Anna Maria Bigatti | 22 Jan 2024 10:37 | CoCoA-4 function to be added | 10     |
| 367 | CoCoA-5 |             | Normal   | implement LF/DF for an ideal                                                 | Anna Maria Bigatti | 09 May 2014 12:51 | Incomplete function          | 100    |



| #   | Project | Parent task | Priority | Subject                                                              | Assignee           | Updated           | Category                     | % Done |
|-----|---------|-------------|----------|----------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 365 | CoCoA-5 |             | Normal   | add function to compute minimal generators (like Minimalize)         | Anna Maria Bigatti | 15 May 2015 11:19 | CoCoA-4 function to be added | 100    |
| 362 | CoCoA-5 |             | Normal   | New function: lsZeroDivisor                                          | Anna Maria Bigatti | 14 Apr 2014 09:14 | CoCoA-5 function: new        | 100    |
| 359 | CoCoA-5 |             | Normal   | RingOf for list                                                      | Anna Maria Bigatti | 30 Jun 2015 15:10 | CoCoA-4 function to be added | 100    |
| 352 | CoCoA-5 |             | Low      | Should SourceRegion echo the "region"?                               | Anna Maria Bigatti | 30 Jul 2015 14:19 | Parser/Interpreter           | 100    |
| 348 | CoCoA-5 |             | Normal   | CoCoA website: CoCoA-5.0.3 pages                                     | Anna Maria Bigatti | 01 Apr 2014 18:29 | Release                      | 100    |
| 346 | CoCoA-5 |             | Normal   | Describe should indicate package name                                | Anna Maria Bigatti | 19 Mar 2021 12:48 | Parser/Interpreter           | 100    |
| 341 | CoCoA-5 |             | Normal   | Remove/replace the word "vector" in the manual                       | Anna Maria Bigatti | 11 Apr 2014 15:06 | Manual/documentation         | 100    |
| 338 | CoCoA-5 |             | High     | MacOS version with static gcc libraries                              | Anna Maria Bigatti | 04 Sep 2014 12:39 | Portability                  | 100    |
| 336 | CoCoA-5 |             | Normal   | Mat(Module) should give error                                        | Anna Maria Bigatti | 06 Jul 2015 07:43 | CoCoA-4 function: obsolete   | 100    |
| 334 | CoCoA-5 |             | Normal   | CoCoAManual: entry for "and", "or", "not" operators                  | Anna Maria Bigatti | 02 Jul 2014 16:47 | Manual/documentation         | 100    |
| 333 | CoCoA-5 |             | Normal   | manual entry for "indent"                                            | Anna Maria Bigatti | 21 May 2013 17:24 | Manual/documentation         | 100    |
| 331 | CoCoA-5 |             | Normal   | Is it possible to have $R^3$ for NewFreeModule(R,3)?                 | Anna Maria Bigatti | 15 Mar 2013 17:01 | CoCoA-5 function: new        | 100    |
| 330 | CoCoA-5 |             | Normal   | Syzygy for modules: homogeneous module                               | Anna Maria Bigatti | 28 Jul 2014 16:35 | CoCoA-4 function to be added | 100    |
| 325 | CoCoA-5 |             | Normal   | CoCoAManual: display syntax first                                    | Anna Maria Bigatti | 31 Jul 2014 17:36 | Manual/documentation         | 100    |
| 322 | CoCoA-5 |             | High     | Installation instructions (on website)                               | Anna Maria Bigatti | 13 Jun 2022 15:32 | Manual/documentation         | 60     |
| 318 | CoCoA-5 |             | Normal   | implement "indent" for modules                                       | Anna Maria Bigatti | 01 Aug 2013 07:29 | Incomplete function          | 100    |
| 317 | CoCoA-5 |             | Normal   | BuiltInFunctions: evalArgAsLong                                      | Anna Maria Bigatti | 29 Jul 2015 16:15 | Parser/Interpreter           | 100    |
| 314 | CoCoA-5 |             | Normal   | odd and even numbers for snapshots/official versions?                | Anna Maria Bigatti | 23 Mar 2016 10:43 | Release                      | 100    |
| 309 | CoCoA-5 |             | Normal   | (Multi)BlockMatrix                                                   | Anna Maria Bigatti | 31 May 2013 14:41 | CoCoA-5 function: new        | 100    |
| 307 | CoCoA-5 |             | Normal   | Value::from makes BigIntValue::fromInt obsolete?                     | Anna Maria Bigatti | 05 Sep 2014 11:43 | Parser/Interpreter           | 100    |
| 306 | CoCoA-5 |             | High     | Function for accessing the pointed value                             | Anna Maria Bigatti | 21 Mar 2014 11:31 | Parser/Interpreter           | 100    |
| 296 | CoCoA-5 |             | Normal   | Documentation for Parser/Interpreter                                 | Anna Maria Bigatti | 09 Apr 2014 17:22 | Manual/documentation         | 10     |
| 294 | CoCoA-5 |             | Normal   | BuiltInFunctions: General "OneLiner" for arguments of different type | Anna Maria Bigatti | 05 Sep 2014 11:51 | Parser/Interpreter           | 100    |
| 293 | CoCoA-5 |             | Normal   | Add CpuTime to C5 manual                                             | Anna Maria Bigatti | 11 Feb 2013 12:03 | Manual/documentation         | 100    |
| 290 | CoCoA-5 |             | Normal   | Which functions are defined in CoCoALibSupplement?                   | Anna Maria Bigatti | 29 Mar 2019 19:23 | Parser/Interpreter           | 20     |
| 287 | CoCoA-5 |             | Normal   | --fullCoCoALibError prints too much (Try/UponError)                  | Anna Maria Bigatti | 02 Sep 2016 13:54 | Parser/Interpreter           | 10     |
| 286 | CoCoA-5 |             | Normal   | How to test (automatically) a user defined CoCoA function            | Anna Maria Bigatti | 04 Sep 2014 13:46 | Manual/documentation         | 100    |
| 279 | CoCoA-5 |             | Normal   | Bug in Radical (actually a RingHom problem)                          | Anna Maria Bigatti | 03 Sep 2014 18:47 | Incomplete function          | 100    |
| 274 | CoCoA-5 |             | Normal   | InputForm for output readable as input                               | Anna Maria Bigatti | 04 Apr 2014 16:43 | CoCoA-5 function: new        | 10     |
| 271 | CoCoA-5 |             | Normal   | test lecture-HF4                                                     | Anna Maria Bigatti | 24 Oct 2012 14:51 | Cleaning                     | 100    |
| 270 | CoCoA-5 |             | Normal   | Distribution for linux                                               | Anna Maria Bigatti | 11 Sep 2014 17:42 | Release                      | 100    |
| 251 | CoCoA-5 |             | Normal   | How to add a test for CoCoA-5 (CoCoAInterpreter)                     | Anna Maria Bigatti | 29 Jul 2015 12:12 | Manual/documentation         | 100    |

| #   | Project | Parent task | Priority | Subject                                                                                | Assignee           | Updated           | Category                     | % Done |
|-----|---------|-------------|----------|----------------------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 250 | CoCoA-5 |             | Low      | CoCoALib BuildInfo vs CoCoA-5 VersionInfo                                              | Anna Maria Bigatti | 14 May 2021 17:48 | Cleaning                     | 100    |
| 249 | CoCoA-5 |             | Normal   | BuiltIn Normaliz functions not available in CoCoA5Interpreter                          | Anna Maria Bigatti | 21 May 2013 18:09 | Portability                  | 100    |
| 245 | CoCoA-5 |             | Normal   | Meaningful error for functions defined in "missing" external library                   | Anna Maria Bigatti | 11 Sep 2014 17:40 | Portability                  | 100    |
| 237 | CoCoA-5 |             | Normal   | port homog/homogenized for ideal to cocoa-5                                            | Anna Maria Bigatti | 01 Aug 2013 07:23 | CoCoA-4 function to be added | 100    |
| 226 | CoCoA-5 |             | Normal   | HilbertBasis segv                                                                      | Anna Maria Bigatti | 02 Apr 2014 18:30 | Incomplete function          | 100    |
| 225 | CoCoA-5 |             | Normal   | HilbertBasis: cocoa vs normaliz                                                        | Anna Maria Bigatti | 20 May 2014 17:54 | Manual/documentation         | 100    |
| 212 | CoCoA-5 |             | Normal   | NBM: add to CoCoA-5                                                                    | Anna Maria Bigatti | 24 Feb 2014 18:07 | CoCoA-4 function to be added | 100    |
| 208 | CoCoA-5 |             | Normal   | describe \$package                                                                     | Anna Maria Bigatti | 06 May 2014 18:14 | Parser/Interpreter           | 100    |
| 207 | CoCoA-5 |             | Normal   | BuiltIn Normaliz functions not available in C5 gui                                     | Anna Maria Bigatti | 01 Aug 2012 15:09 | GUI                          | 100    |
| 201 | CoCoA-5 |             | High     | segmentation fault with function defined in package ("PrintHGIndices"): First and Last | Anna Maria Bigatti | 04 Jul 2012 09:45 | Parser/Interpreter           | 100    |
| 200 | CoCoA-5 |             | Normal   | add modules and module operations                                                      | Anna Maria Bigatti | 15 May 2015 09:02 | CoCoA-4 function to be added | 100    |
| 193 | CoCoA-5 |             | High     | BuiltinFunctions.C getting too long (2000 lines)                                       | Anna Maria Bigatti | 01 Aug 2013 08:10 | Parser/Interpreter           | 100    |
| 192 | CoCoA-5 |             | Normal   | indent prints strings without quotes                                                   | Anna Maria Bigatti | 14 Nov 2012 11:30 | Incomplete function          | 100    |
| 188 | CoCoA-5 |             | Normal   | CoCoAManual: entries for operators                                                     | Anna Maria Bigatti | 02 Jul 2014 16:46 | Manual/documentation         | 100    |
| 187 | CoCoA-5 |             | Normal   | CoCoA-5 (partial) releases: make the process simpler                                   | Anna Maria Bigatti | 16 Jan 2018 15:35 | Release                      | 100    |
| 185 | CoCoA-5 |             | Normal   | Banner for CoCoA-5                                                                     | Anna Maria Bigatti | 04 Jul 2012 10:03 | Parser/Interpreter           | 100    |
| 179 | CoCoA-5 |             | Normal   | TeX documentation for CoCoA-5                                                          | Anna Maria Bigatti | 14 May 2014 16:56 | Manual/documentation         | 100    |
| 177 | CoCoA-5 |             | Normal   | CoCoAManual: General part of the documentation is obsolete: update? discard?           | Anna Maria Bigatti | 10 Mar 2023 17:02 | Manual/documentation         | 70     |
| 176 | CoCoA-5 |             | Normal   | CoCoAManual: Doc for new commands                                                      | Anna Maria Bigatti | 02 Jul 2014 16:48 | Manual/documentation         | 100    |
| 175 | CoCoA-5 |             | Normal   | Approximate BuchbergerMoeller: port to CoCoA-5                                         | Anna Maria Bigatti | 14 Mar 2023 22:12 | CoCoA-4 function to be added | 70     |
| 173 | CoCoA-5 |             | Normal   | Anonymous symbols: should they be available in CoCoA-5?                                | Anna Maria Bigatti | 02 Sep 2014 11:20 | CoCoA-5 function: new        | 100    |
| 172 | CoCoA-5 |             | Normal   | add customization for --fullCoCoALibError in EmacsUI                                   | Anna Maria Bigatti | 01 Jun 2012 17:36 | EmacsUI                      | 100    |
| 170 | CoCoA-5 |             | Normal   | CoCoAManual HTML: page for "Try"                                                       | Anna Maria Bigatti | 06 Mar 2017 16:44 | Manual/documentation         | 100    |
| 169 | CoCoA-5 |             | Low      | Font for parameters in manual                                                          | Anna Maria Bigatti | 31 May 2022 10:35 | Manual/documentation         | 100    |
| 168 | CoCoA-5 |             | Normal   | Type info in CoCoA-5 manual                                                            | Anna Maria Bigatti | 10 Oct 2019 17:37 | Manual/documentation         | 100    |
| 166 | CoCoA-5 |             | Normal   | Dim/Multiplicity with Lex ordering -- NYI                                              | Anna Maria Bigatti | 21 May 2013 18:07 | Incomplete function          | 100    |
| 162 | CoCoA-5 |             | Normal   | RegularityIndex <= 0                                                                   | Anna Maria Bigatti | 08 Jun 2012 17:20 | Incomplete function          | 100    |
| 159 | CoCoA-5 |             | Normal   | Multiplicity sometimes wrong                                                           | Anna Maria Bigatti | 08 Jun 2012 17:29 | Incomplete function          | 100    |
| 137 | CoCoA-5 |             | Normal   | JAA does not like the name IndetInd                                                    | Anna Maria Bigatti | 08 Jun 2012 17:30 | Parser/Interpreter           | 100    |
| 132 | CoCoA-5 |             | Normal   | BringIn should allow reduction modulo p                                                | Anna Maria Bigatti | 04 Sep 2014 12:05 | CoCoA-4 function to be added | 100    |

| #   | Project | Parent task | Priority | Subject                                                                       | Assignee           | Updated           | Category                     | % Done |
|-----|---------|-------------|----------|-------------------------------------------------------------------------------|--------------------|-------------------|------------------------------|--------|
| 128 | CoCoA-5 |             | Normal   | wordlist.txt generation                                                       | Anna Maria Bigatti | 07 Jun 2012 18:31 | EmacsUI                      | 100    |
| 115 | CoCoA-5 |             | Normal   | PP ordering bug                                                               | Anna Maria Bigatti | 28 Mar 2012 14:29 | Parser/Interpreter           | 100    |
| 109 | CoCoA-5 |             | Normal   | SmoothFactor should allow large first arg                                     | Anna Maria Bigatti | 19 Mar 2012 18:01 | Parser/Interpreter           | 100    |
| 108 | CoCoA-5 |             | Normal   | Unhandled division by zero in FFp                                             | Anna Maria Bigatti | 20 Mar 2012 16:21 | Parser/Interpreter           | 100    |
| 106 | CoCoA-5 |             | Normal   | I:f (IDEAL and RINGELEM) -- operator colon                                    | Anna Maria Bigatti | 02 Sep 2014 11:12 | Incomplete function          | 10     |
| 99  | CoCoA-5 |             | Normal   | Function "insert": obsolescent                                                | Anna Maria Bigatti | 27 Aug 2014 18:17 | CoCoA-4 function: obsolete   | 100    |
| 93  | CoCoA-5 |             | Normal   | Hilbert series: global output rings for non-standard gradings                 | Anna Maria Bigatti | 23 Jul 2013 18:13 | CoCoA-4 function to be added | 100    |
| 90  | CoCoA-5 |             | Normal   | Make the new fn CoefficientsWRT available in C5                               | Anna Maria Bigatti | 28 Nov 2012 11:31 | CoCoA-5 function: new        | 100    |
| 80  | CoCoA-5 |             | Normal   | "<=" for ideals                                                               | Anna Maria Bigatti | 23 Jan 2012 14:31 | CoCoA-4 function to be added | 100    |
| 79  | CoCoA-5 |             | Normal   | Sort entries in CoCoAHelp.xml and write code on OnlineHelp.C to check sorting | Anna Maria Bigatti | 23 Jan 2012 14:11 | Manual/documentation         | 100    |
| 78  | CoCoA-5 |             | High     | Elim ordering and matrix ordering in CoCoA-5                                  | Anna Maria Bigatti | 28 Mar 2024 07:25 | CoCoA-4 function to be added | 50     |
| 77  | CoCoA-5 |             | High     | Porting package "primary.cpkg" to cocoa-5                                     | Anna Maria Bigatti | 19 Jan 2012 11:38 | CoCoA-4 function to be added | 100    |
| 34  | CoCoA-5 |             | Normal   | CoCoAManual: obsolete entries in the manual                                   | Anna Maria Bigatti | 02 Sep 2014 11:30 | Manual/documentation         | 100    |
| 33  | CoCoA-5 |             | Normal   | Modify the packages so that -w3 produces no warnings during start-up          | Anna Maria Bigatti | 23 Jan 2012 14:13 | Parser/Interpreter           | 100    |
| 32  | CoCoA-5 |             | Normal   | Elim(t, l)                                                                    | Anna Maria Bigatti | 02 Apr 2014 17:18 | CoCoA-4 function to be added | 100    |
| 31  | CoCoA-5 |             | Normal   | theValue makes copy                                                           | Anna Maria Bigatti | 18 Feb 2022 16:42 | Parser/Interpreter           | 60     |
| 27  | CoCoA-5 |             | High     | CoCoA-5 Manual                                                                | Anna Maria Bigatti | 01 Jun 2012 17:59 | Manual/documentation         | 100    |
| 25  | CoCoA-5 |             | Normal   | Function "Call"                                                               | Anna Maria Bigatti | 05 Sep 2014 11:31 | CoCoA-4 function: obsolete   | 100    |
| 20  | CoCoA-5 |             | High     | How to get the compilation flags of CoCoA-5?                                  | Anna Maria Bigatti | 28 Jul 2014 17:44 | CoCoA-5 function: new        | 100    |
| 19  | CoCoA-5 |             | High     | How to get the version number of CoCoA-5?                                     | Anna Maria Bigatti | 14 Nov 2012 11:34 | CoCoA-4 function to be added | 100    |
| 12  | CoCoA-5 |             | Urgent   | Add "syntax" to online manual                                                 | Anna Maria Bigatti | 09 Nov 2011 11:32 | CoCoA-4 function to be added | 100    |
| 7   | CoCoA-5 |             | High     | Automatic mapping between (some) rings                                        | Anna Maria Bigatti | 10 Mar 2023 17:08 | Parser/Interpreter           | 80     |