

## CoCoA-5 - CoCoA-5.2.0 (Spring 17)

| #                                 | Priority | Subject   | Assignee           | Updated           | Category              | % Done | Estimated time |
|-----------------------------------|----------|---|--------------------|-------------------|-----------------------|--------|----------------|
| <b>CoCoA-5 function: new (11)</b> |          |   |                    |                   |                       |        |                |
| 903                               | Normal   | New function CallOnGroebnerFanIdeals: call function on GFan ideals                      | Anna Maria Bigatti | 26 Apr 2017 19:04 | CoCoA-5 function: new | 100    | 4.0            |
| 996                               | High     | New function: IdealOfGBasis   | Anna Maria Bigatti | 29 Apr 2017 08:34 | CoCoA-5 function: new | 100    | 2.01           |
| 1043                              | Normal   | New function: IsCoprime   | Anna Maria Bigatti | 28 Apr 2017 19:21 | CoCoA-5 function: new | 100    | 1.0            |
| 965                               | Normal   | New function: multigraded BettiNumbers  | Anna Maria Bigatti | 10 Apr 2017 17:39 | CoCoA-5 function: new | 100    | 4.01           |
| 1044                              | Normal   | New function: SectionalMatrix, PrintSectionalMatrix                                     | Anna Maria Bigatti | 10 Apr 2017 17:55 | CoCoA-5 function: new | 100    | 2.01           |
| 1017                              | Normal   | New function: SetGBasisAsGens [--> NO: use IdealOfGBasis]                               | Anna Maria Bigatti | 10 Apr 2017 17:43 | CoCoA-5 function: new | 100    | 0.51           |
| 954                               | Normal   | New function: StdBasis (standard basis)   | Anna Maria Bigatti | 01 Mar 2017 14:11 | CoCoA-5 function: new | 100    | 6.01           |
| 959                               | Normal   | New function: SymmetricPolys  | Anna Maria Bigatti | 01 Mar 2017 14:10 | CoCoA-5 function: new | 100    | 2.0            |
| 845                               | Normal   | Primary Decomposition in CoCoA-5.1.6: zero dimensional, finite characteristic           | Elisa Palezzato    | 10 Apr 2017 16:47 | CoCoA-5 function: new | 100    | 20.1           |
| 734                               | Normal   | Primary Decomposition in CoCoA-5: zero dimensional, zero characteristic                 | Elisa Palezzato    | 07 Apr 2017 10:13 | CoCoA-5 function: new | 100    | 40.01          |
| 927                               | Normal   | Add "exit" in addition to "ciao"  | John Abbott        | 01 Mar 2017 14:15 | CoCoA-5 function: new | 100    | 1.56           |
| <b>EmacsUI (4)</b>                |          |   |                    |                   |                       |        |                |
| 1038                              | Normal   | Emacs: sent interrupt to CoCoA  | Anna Maria Bigatti | 26 Apr 2017 17:20 | EmacsUI               | 100    | 4.01           |
| 1002                              | Normal   | Emacs UI: cocoa5-send-line skips too many chars   | John Abbott        | 27 Apr 2017 11:31 | EmacsUI               | 100    | 2.6            |
| 748                               | Normal   | Emacs UI: return inside a block of output sends several lines (not just the one I'm on) | John Abbott        | 28 Apr 2017 09:12 | EmacsUI               | 100    | 3.01           |
| 998                               | Low      | Emacs UI: sending empty input from cocoa5 buffer  | John Abbott        | 26 Apr 2017 17:19 | EmacsUI               | 100    | 3.1            |
| <b>enhancing/improving (13)</b>   |          |   |                    |                   |                       |        |                |
| 870                               | Urgent   | GBasis of product of ideals is wrong (Vadim Tropashko) --> l.myReset()                  | Anna Maria Bigatti | 26 Apr 2017 15:56 | enhancing/improving   | 100    | 2.01           |
| 883                               | Normal   | gin: return/print a suitable change of variables  | Anna Maria Bigatti | 26 Apr 2017 17:25 | enhancing/improving   | 100    | 2.01           |
| 973                               | High     | GroebnerFanIdeals: verbosity and output style   | Anna Maria Bigatti | 28 Apr 2017 15:14 | enhancing/improving   | 100    | 5.5            |
| 1047                              | High     | NewPolyRing with user defined ordering is slower than CoCoALib                          | Anna Maria Bigatti | 01 May 2017 10:43 | enhancing/improving   | 100    | 5.31           |
| 1051                              | Normal   | ReadExpr(P, string) and RingElem(P, string)   | Anna Maria Bigatti | 28 Apr 2017 19:06 | enhancing/improving   | 100    | 3.0            |
| 878                               | Normal   | RingElem applied to a symbol (repr as a string)   | Anna Maria Bigatti | 27 Apr 2017 14:34 | enhancing/improving   | 100    | 1.8            |
| 994                               | Urgent   | SEGV: Toric example from Kazuki Maeda   | Anna Maria Bigatti | 07 Apr 2017 09:48 | enhancing/improving   | 100    | 6.01           |
| 877                               | Normal   | Easier syntax to make a PRINCIPAL ideal?  | John Abbott        | 27 Apr 2017 14:57 | enhancing/improving   | 100    | 0.77           |
| 708                               | High     | ExternalLib Normaliz: verbose flag?   | John Abbott        | 05 May 2017 10:36 | enhancing/improving   | 100    | 3.01           |
| 744                               | High     | Handle interrupts more helpfully  | John Abbott        | 02 Mar 2017 16:15 | enhancing/improving   | 100    | 2.0            |

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|---------------------------------|-----------|---|--------------------|-------------------|----------------------|--------|----------------|
| 995                             | Normal    | LaTeX(x^10) should use curly brackets                                       | John Abbott        | 01 Mar 2017 13:35 | enhancing/improving  | 100    | 0.251          |
| 909                             | Normal    | ReadExpr: decimal point   | John Abbott        | 27 Apr 2017 11:43 | enhancing/improving  | 100    | 2.0            |
| 1028                            | Normal    | Readline: cursor moves wrongly when at start of line with a prompt          | John Abbott        | 27 Apr 2017 11:35 | enhancing/improving  | 100    | 0.99           |
| <b>External Libs (3)</b>        |           |   |                    |                   |                      |        |                |
| 711                             | Normal    | External Libs: print credits?   | Anna Maria Bigatti | 28 Apr 2017 14:49 | External Libs        | 100    | 4.4            |
| 243                             | Normal    | Normaliz tests for CoCoA5   | Christof Soeger    | 12 Oct 2016 15:01 | External Libs        | 100    | 3.05           |
| 757                             | Immediate | readline: fix script for finding libreadline                                | John Abbott        | 28 Apr 2017 09:13 | External Libs        | 100    | 4.01           |
| <b>Incomplete function (3)</b>  |           |   |                    |                   |                      |        |                |
| 405                             | Normal    | ReducedGBasis not memorized in an ideal                                     | Anna Maria Bigatti | 28 Apr 2017 09:14 | Incomplete function  | 100    | 2.01           |
| 880                             | 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    | 1.0            |
| 918                             | Normal    | UniversalGBasis: sometimes gives error                                      | Anna Maria Bigatti | 12 Oct 2016 15:01 | Incomplete function  | 100    | 2.05           |
| <b>Manual/documentation (6)</b> |           |   |                    |                   |                      |        |                |
| 521                             | Normal    | Manual: automatically check all examples                                    |                    | 28 Apr 2017 14:34 | Manual/documentation | 100    |                |
| 863                             | High      | CoCoA-5 manual: IsInteger and IsRational are missing?                       | Anna Maria Bigatti | 27 Apr 2017 15:03 | Manual/documentation | 100    | 0.77           |
| 1046                            | Low       | CoCoA-5 no longer lists the external libs present                           | Anna Maria Bigatti | 27 Apr 2017 15:38 | Manual/documentation | 100    | 1.01           |
| 170                             | Normal    | CoCoAManual HTML: page for "Try"  | Anna Maria Bigatti | 06 Mar 2017 16:44 | Manual/documentation | 100    |                |
| 1040                            | High      | CoCoAManual: entry for SetVerbosityLevel/VerbosityLevel                     | Anna Maria Bigatti | 27 Apr 2017 15:20 | Manual/documentation | 100    | 0.99           |
| 963                             | High      | Manual: XML problem with html doc   | Anna Maria Bigatti | 26 Apr 2017 16:00 | Manual/documentation | 100    | 2.0            |
| <b>Parser/Interpreter (3)</b>   |           |   |                    |                   |                      |        |                |
| 1045                            | Normal    | Error message from cocoa-lib to cocoa-5                                     | Anna Maria Bigatti | 28 Apr 2017 19:21 | Parser/Interpreter   | 100    | 1.01           |
| 1018                            | Normal    | Interpreter: limit range for ".." operator                                  | John Abbott        | 28 Apr 2017 16:20 | Parser/Interpreter   | 100    | 1.44           |
| 478                             | Normal    | Use of dollar-dot (\$) in packages  | John Abbott        | 05 Sep 2016 12:39 | Parser/Interpreter   | 100    | 0.7            |
| <b>Release (2)</b>              |           |   |                    |                   |                      |        |                |
| 852                             | Normal    | fix OnlineManual.C so that version number may be removed from CoCoAHelp.xml | Anna Maria Bigatti | 01 Mar 2017 13:31 | Release              | 100    | 1.0            |
| 851                             | High      | Release: CoCoA-5.2.0  | Anna Maria Bigatti | 08 May 2017 11:57 | Release              | 100    | 14.01          |
| <b>Renaming (1)</b>             |           |   |                    |                   |                      |        |                |
| 868                             | Normal    | Der, Bin: why the capital letter?   | Anna Maria Bigatti | 28 Apr 2017 09:24 | Renaming             | 100    | 2.01           |