

## CoCoALib - Issues

| #    | Project  | Parent task | Priority | Subject  | Assignee           | Updated           | Category   | % Done |
|------|----------|-------------|----------|--|--------------------|-------------------|------------|--------|
| 1331 | CoCoALib |             | Normal   | adj: for matrices 7x7 and bigger                             | John Abbott        | 28 Oct 2020 23:17 | Maths Bugs | 100    |
| 1449 | CoCoALib |             | Urgent   | Bivariate factor bug: sometimes a factor is reducible        | John Abbott        | 20 May 2020 13:26 | Maths Bugs | 100    |
| 1729 | CoCoALib |             | Urgent   | Bug HilbertPoly of zero-dimensional ideals                   | Anna Maria Bigatti | 12 Apr 2023 14:45 | Maths Bugs | 100    |
| 1101 | CoCoALib |             | High     | Bug in MinPolyModular (insufficient rational reconstruction) | Anna Maria Bigatti | 15 Dec 2017 16:42 | Maths Bugs | 100    |
| 199  | CoCoALib |             | Normal   | CFApprox: division by zero                                   | John Abbott        | 29 Jun 2012 17:23 | Maths Bugs | 100    |
| 355  | CoCoALib |             | Urgent   | Colon of zero ideal fails (zero-divisors)                    | Anna Maria Bigatti | 30 Oct 2013 10:52 | Maths Bugs | 100    |
| 1300 | CoCoALib |             | Normal   | CoprimeFactorBasis: mishandles negative args                 | John Abbott        | 01 Oct 2019 13:34 | Maths Bugs | 100    |
| 1773 | CoCoALib |             | Normal   | CyclotomicFactorIndexes: gave wrong answer                   | John Abbott        | 22 Dec 2023 21:30 | Maths Bugs | 100    |
| 956  | CoCoALib |             | Normal   | determinant: fails for 0x0 matrix (SEGV)                     | John Abbott        | 28 Apr 2017 09:29 | Maths Bugs | 100    |
| 1082 | CoCoALib |             | High     | factor in ZZ[x] gives errors                                 | John Abbott        | 08 Nov 2017 14:12 | Maths Bugs | 100    |
| 1281 | CoCoALib |             | High     | Factor of multivariate sometimes prints ERROR                |                    | 21 Jan 2024 20:03 | Maths Bugs | 10     |
| 1233 | CoCoALib |             | High     | factor SEGV -- too large characteristic                      | John Abbott        | 14 Mar 2023 19:45 | Maths Bugs | 60     |
| 1185 | CoCoALib |             | High     | factor: multivariate, wrong RemainingFactor (sign wrong)     | John Abbott        | 31 Jul 2018 13:15 | Maths Bugs | 100    |
| 1379 | CoCoALib |             | High     | Fails to recognize zero-dim ideal                            | Anna Maria Bigatti | 10 Jan 2020 12:17 | Maths Bugs | 100    |
| 776  | CoCoALib |             | Normal   | FloatStr prints a NUL character                              | John Abbott        | 01 Feb 2016 14:23 | Maths Bugs | 100    |
| 1570 | CoCoALib |             | Normal   | FloatStr sometimes produces NUL chars                        | John Abbott        | 16 Sep 2021 12:32 | Maths Bugs | 100    |
| 858  | CoCoALib |             | Normal   | floor for TwinFloat can produce ERR::SERIOUS                 | John Abbott        | 25 Jun 2016 12:08 | Maths Bugs | 100    |
| 1199 | CoCoALib |             | Normal   | GCD bug with high degree arg                                 | Anna Maria Bigatti | 03 Aug 2018 15:47 | Maths Bugs | 100    |
| 1758 | CoCoALib |             | Normal   | Graeffe "sign bug"   | John Abbott        | 22 Dec 2023 20:59 | Maths Bugs | 100    |
| 577  | CoCoALib |             | High     | Hilbert crashes with > 100 indeterminates                    | Anna Maria Bigatti | 31 Jul 2014 16:57 | Maths Bugs | 100    |
| 1211 | CoCoALib |             | High     | HilbertSeries should check grading                           | Anna Maria Bigatti | 03 Oct 2019 10:37 | Maths Bugs | 100    |
| 1081 | CoCoALib |             | Normal   | ideal() * RingElem gives error                               | Anna Maria Bigatti | 08 Nov 2017 17:03 | Maths Bugs | 100    |
| 1416 | CoCoALib |             | Normal   | IdealOfProjectivePoints and MinGens                          | Anna Maria Bigatti | 04 Mar 2020 14:19 | Maths Bugs | 100    |
| 377  | CoCoALib |             | Normal   | IsDivisible -- exact semantics?                              | John Abbott        | 17 Apr 2014 09:21 | Maths Bugs | 100    |
| 1565 | CoCoALib |             | Normal   | IsInRadical: gives "weird" error                             | John Abbott        | 16 Sep 2021 12:49 | Maths Bugs | 100    |
| 1411 | CoCoALib |             | Normal   | IsPrimary sometimes wrong                                    | John Abbott        | 03 Feb 2020 15:42 | Maths Bugs | 100    |
| 1710 | CoCoALib |             | Urgent   | IsSqFree, IsIrred bugs in ZZ[x] and QQ[x]                    | John Abbott        | 07 Mar 2023 20:55 | Maths Bugs | 100    |
| 1026 | CoCoALib |             | Normal   | JanetBasis gives error indet index out of range              |                    | 08 Mar 2017 15:26 | Maths Bugs | 0      |
| 1484 | CoCoALib |             | Normal   | ker bug (quotientinghom for R/ideal())                       | Anna Maria Bigatti | 16 Sep 2021 13:33 | Maths Bugs | 100    |
| 1571 | CoCoALib |             | Normal   | ker_H needs care   | Anna Maria Bigatti | 16 Feb 2024 17:49 | Maths Bugs | 10     |
| 1740 | CoCoALib |             | High     | MinGens gives non minimal gens *if some deg=0*               | Anna Maria Bigatti | 22 Mar 2024 18:04 | Maths Bugs | 30     |

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|------|----------|-------------|----------|---|--------------------|-------------------|------------|--------|
| 1248 | CoCoALib |             | High     | MinPolyQuot: guaranteed and ideal without GBasis          | Anna Maria Bigatti | 31 Oct 2019 15:55 | Maths Bugs | 100    |
| 853  | CoCoALib |             | Normal   | NearestInt can needlessly throw InsufficientPrecision     | John Abbott        | 05 Oct 2016 16:33 | Maths Bugs | 100    |
| 1143 | CoCoALib |             | Urgent   | Polynomial multiplication wrong for non integral rings    | John Abbott        | 20 Dec 2017 15:48 | Maths Bugs | 100    |
| 1121 | CoCoALib |             | Normal   | PrevPrime and NextPrime anomalies                         | John Abbott        | 03 Aug 2018 15:48 | Maths Bugs | 100    |
| 648  | CoCoALib |             | High     | QBGenerator crashes                                       | John Abbott        | 17 Nov 2014 11:38 | Maths Bugs | 100    |
| 85   | CoCoALib |             | High     | QuotientRing problem                                      | Anna Maria Bigatti | 05 Jul 2012 10:11 | Maths Bugs | 100    |
| 1646 | CoCoALib |             | Normal   | radical: could be more clever                             | John Abbott        | 24 Jan 2022 09:07 | Maths Bugs | 100    |
| 666  | CoCoALib |             | Urgent   | RatReconstructByLattice fails in some simple cases        | John Abbott        | 25 Jun 2015 15:16 | Maths Bugs | 100    |
| 938  | CoCoALib |             | Urgent   | ReadExpr: misreads 2/3^4                                  | John Abbott        | 18 Nov 2016 22:23 | Maths Bugs | 100    |
| 1310 | CoCoALib |             | Urgent   | RealRoots: gives odd number of roots for deg 6 irred poly | John Abbott        | 14 Oct 2019 15:01 | Maths Bugs | 100    |
| 1690 | CoCoALib |             | High     | resultant gives wrong answer if an arg has deg 0          | John Abbott        | 18 Jan 2023 18:33 | Maths Bugs | 100    |
| 1725 | CoCoALib |             | High     | resultant: gives wrong answer when should be 0            | John Abbott        | 09 Mar 2023 20:49 | Maths Bugs | 100    |
| 1790 | CoCoALib |             | High     | saturate with zero ideals                                 | John Abbott        | 21 Mar 2024 17:56 | Maths Bugs | 100    |
| 36   | CoCoALib |             | Urgent   | Saturation  | Anna Maria Bigatti | 05 Dec 2011 18:27 | Maths Bugs | 100    |
| 1656 | CoCoALib |             | Normal   | SEGV in resultant   | John Abbott        | 04 Feb 2022 21:33 | Maths Bugs | 100    |
| 1206 | CoCoALib |             | Normal   | syz, SyzOfGens: which shifts for zero?                    | Anna Maria Bigatti | 28 Mar 2024 10:15 | Maths Bugs | 100    |
| 510  | CoCoALib |             | Normal   | SyzOfGens (CoCoALib): fix shifts                          | Anna Maria Bigatti | 17 Apr 2014 16:36 | Maths Bugs | 100    |
| 457  | CoCoALib |             | Normal   | Zero to the power zero, 0^0                               | John Abbott        | 03 Apr 2014 11:50 | Maths Bugs | 100    |