

CoCoALib - CoCoALib-0.99600 (Aug 2018)

| # | Priority | Subject | Assignee | Updated | Category | % Done | Estimated time |
|----------------------------|-----------|---|--------------------|-------------------|-----------------|--------|----------------|
| Data Structures (1) | | | | | | | |
| 1159 | Normal | Add global enum "verify/DontVerify" | John Abbott | 25 Jun 2018 15:06 | Data Structures | 100 | 1.1 |
| Documentation (3) | | | | | | | |
| 1124 | Normal | Move examples directory into doc -- or just change makefile? | Anna Maria Bigatti | 03 Aug 2018 17:04 | Documentation | 100 | 5.01 |
| 847 | Normal | Doc for BigInt, BigIntOps, BigRat -- should there be BigRatOps? | John Abbott | 03 Aug 2018 15:53 | Documentation | 100 | 7.7 |
| 1099 | Urgent | MinPolyQuot: missing doc | Anna Maria Bigatti | 03 Aug 2018 14:32 | Documentation | 100 | 1.0 |
| Improving (8) | | | | | | | |
| 1205 | Urgent | SyzOfGens: bug with zero generators | Anna Maria Bigatti | 03 Aug 2018 18:09 | Improving | 100 | 5.01 |
| 1165 | Normal | MinPoly over QQ: verification may be very slow | Anna Maria Bigatti | 03 Aug 2018 17:37 | Improving | 100 | 7.7 |
| 764 | Normal | ExternalLib: simplify configuration | Anna Maria Bigatti | 03 Aug 2018 17:33 | Improving | 100 | 1.55 |
| 1009 | Normal | coefficients for MinPoly e Frobenius | Anna Maria Bigatti | 03 Aug 2018 17:16 | Improving | 100 | 2.51 |
| 1162 | Normal | Check semantics of NoSmallFactorSeq | John Abbott | 03 Aug 2018 16:01 | Improving | 100 | 5.55 |
| 1110 | Normal | Determinant of matrix over QQ (whose entries are actually integers) | John Abbott | 03 Aug 2018 15:56 | Improving | 100 | 19.9 |
| 1181 | Normal | CpuTime is costly! | John Abbott | 31 Jul 2018 14:25 | Improving | 100 | 8.51 |
| 1203 | Normal | factor over algebraic extensions | Anna Maria Bigatti | 31 Jul 2018 13:13 | Improving | 100 | 3.51 |
| Maths Bugs (3) | | | | | | | |
| 1121 | Normal | PrevPrime and NextPrime anomalies | John Abbott | 03 Aug 2018 15:48 | Maths Bugs | 100 | 0.22 |
| 1199 | Normal | GCD bug with high degree arg | Anna Maria Bigatti | 03 Aug 2018 15:47 | Maths Bugs | 100 | 3.33 |
| 1185 | High | factor: multivariate, wrong RemainingFactor (sign wrong) | John Abbott | 31 Jul 2018 13:15 | Maths Bugs | 100 | 4.51 |
| New Function (12) | | | | | | | |
| 374 | Immediate | Porting "IdealOfProjectivePoints" | John Abbott | 08 Feb 2019 20:56 | New Function | 100 | 1.99 |
| 587 | Normal | port to CoCoALib: Homomorphism pkg (ker, IsInjective, IsSurjective..) | John Abbott | 03 Aug 2018 18:11 | New Function | 100 | 18.8 |
| 1178 | Normal | New function: myPrimaryDecomposition_0dim | Anna Maria Bigatti | 03 Aug 2018 17:41 | New Function | 100 | 3.51 |
| 901 | Normal | New function: PrimaryDecomposition0 in CoCoALib | Anna Maria Bigatti | 03 Aug 2018 17:40 | New Function | 100 | 11.1 |
| 900 | Normal | New function: MinPoly of RingElem in quotient ring | Anna Maria Bigatti | 03 Aug 2018 17:31 | New Function | 100 | 1.5 |
| 1154 | Normal | SmallFpImpl: new ctor arg to say do-not-check-that-arg-is-prime | John Abbott | 03 Aug 2018 16:14 | New Function | 100 | 1.99 |
| 1155 | Normal | Create a new "prime source" iterator | John Abbott | 03 Aug 2018 16:11 | New Function | 100 | 22.2 |
| 1131 | Normal | Sturm sequence | John Abbott | 03 Aug 2018 16:05 | New Function | 100 | 4.44 |
| 1167 | Normal | New class VerificationLevel | John Abbott | 02 Aug 2018 17:29 | New Function | 100 | 2.01 |

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|------------------------|----------|---|--------------------|-------------------|--------------|--------|----------------|
| 1169 | Normal | New function: RandomLinearForm (CoCoALib) | Anna Maria Bigatti | 02 Aug 2018 16:59 | New Function | 100 | 2.21 |
| 1158 | Normal | New function: MinPolyQuotHeuristic --> MinPolyQuot with VerificationLevel | Anna Maria Bigatti | 02 Aug 2018 16:42 | New Function | 100 | 4.0 |
| 1126 | Normal | New function: SubmoduleOfMinGens | Anna Maria Bigatti | 02 Aug 2018 16:20 | New Function | 100 | 4.0 |
| Portability (1) | | | | | | | |
| 1005 | Normal | Makefile: install target for CoCoALib | John Abbott | 03 Aug 2018 17:08 | Portability | 100 | 4.44 |
| Renaming (3) | | | | | | | |
| 1145 | Normal | File names, coding conventions: Fns, Ops, Operations? part 2 | John Abbott | 03 Aug 2018 16:17 | Renaming | 100 | 3.33 |
| 410 | Normal | New file: BigRatOps | John Abbott | 03 Aug 2018 16:15 | Renaming | 100 | 0.22 |
| 1163 | Normal | Split SparsePolyRing.C in smaller files | Anna Maria Bigatti | 02 Aug 2018 17:04 | Renaming | 100 | 3.0 |
| Safety (1) | | | | | | | |
| 1180 | Normal | BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg) | John Abbott | 15 Jan 2021 17:13 | Safety | 100 | 7.7 |
| Tidying (2) | | | | | | | |
| 825 | Normal | IsPositiveGrading -- really need 2 signatures? | John Abbott | 03 Aug 2018 17:01 | Tidying | 100 | 0.88 |
| 1182 | Normal | "mod" for BigInt | John Abbott | 03 Aug 2018 16:27 | Tidying | 100 | 2.0 |
| Various (3) | | | | | | | |
| 1149 | Normal | Release: CoCoALib-0.99600 (together with CoCoA-5.2.4) | Anna Maria Bigatti | 09 Aug 2018 10:36 | Various | 100 | 10.0 |
| 1195 | Normal | Release: CoCoALib-0.99580 (together with CoCoA-5.2.4) | | 06 Aug 2018 16:16 | Various | 100 | |
| 1177 | Normal | File names: use "SparsePolyOps" prefix for pertinent files | Anna Maria Bigatti | 03 Aug 2018 16:18 | Various | 100 | 6.66 |