

## CoCoALib - CoCoALib-0.99600 (Aug 2018)

#	Priority	Subject	Assignee	Updated	Category	% Done	Estimated time
<b>Data Structures (1)</b>							
1159	Normal	Add global enum "verify/DontVerify"	John Abbott	25 Jun 2018 15:06	Data Structures	100	1.1
<b>Documentation (3)</b>							
1099	Urgent	MinPolyQuot: missing doc	Anna Maria Bigatti	03 Aug 2018 14:32	Documentation	100	1.0
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
<b>Improving (8)</b>							
1205	Urgent	SyzOfGens: bug with zero generators	Anna Maria Bigatti	03 Aug 2018 18:09	Improving	100	5.01
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
1165	Normal	MinPoly over QQ: verification may be very slow	Anna Maria Bigatti	03 Aug 2018 17:37	Improving	100	7.7
1203	Normal	factor over algebraic extensions	Anna Maria Bigatti	31 Jul 2018 13:13	Improving	100	3.51
1110	Normal	Determinant of matrix over QQ (whose entries are actually integers)	John Abbott	03 Aug 2018 15:56	Improving	100	19.9
1162	Normal	Check semantics of NoSmallFactorSeq	John Abbott	03 Aug 2018 16:01	Improving	100	5.55
1181	Normal	CpuTime is costly!	John Abbott	31 Jul 2018 14:25	Improving	100	8.51
<b>Maths Bugs (3)</b>							
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
1121	Normal	PrevPrime and NextPrime anomalies	John Abbott	03 Aug 2018 15:48	Maths Bugs	100	0.22
<b>New Function (12)</b>							
900	Normal	New function: MinPoly of RingElem in quotient ring	Anna Maria Bigatti	03 Aug 2018 17:31	New Function	100	1.5
901	Normal	New function: PrimaryDecomposition0 in CoCoALib	Anna Maria Bigatti	03 Aug 2018 17:40	New Function	100	11.1
1126	Normal	New function: SubmoduleOfMinGens	Anna Maria Bigatti	02 Aug 2018 16:20	New Function	100	4.0
1158	Normal	New function: MinPolyQuotHeuristic --> MinPolyQuot with VerificationLevel	Anna Maria Bigatti	02 Aug 2018 16:42	New Function	100	4.0
1169	Normal	New function: RandomLinearForm (CoCoALib)	Anna Maria Bigatti	02 Aug 2018 16:59	New Function	100	2.21
1178	Normal	New function: myPrimaryDecomposition_0dim	Anna Maria Bigatti	03 Aug 2018 17:41	New Function	100	3.51
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
1131	Normal	Sturm sequence	John Abbott	03 Aug 2018 16:05	New Function	100	4.44

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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
1167	Normal	New class VerificationLevel	John Abbott	02 Aug 2018 17:29	New Function	100	2.01
<b>Portability (1)</b>							
1005	Normal	Makefile: install target for CoCoALib	John Abbott	03 Aug 2018 17:08	Portability	100	4.44
<b>Renaming (3)</b>							
1163	Normal	Split SparsePolyRing.C in smaller files	Anna Maria Bigatti	02 Aug 2018 17:04	Renaming	100	3.0
410	Normal	New file: BigRatOps	John Abbott	03 Aug 2018 16:15	Renaming	100	0.22
1145	Normal	File names, coding conventions: Fns, Ops, Operations? part 2	John Abbott	03 Aug 2018 16:17	Renaming	100	3.33
<b>Safety (1)</b>							
1180	Normal	BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg)	John Abbott	15 Jan 2021 17:13	Safety	100	7.7
<b>Tidying (2)</b>							
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
<b>Various (3)</b>							
1195	Normal	Release: CoCoALib-0.99580 (together with CoCoA-5.2.4)		06 Aug 2018 16:16	Various	100	
1149	Normal	Release: CoCoALib-0.99600 (together with CoCoA-5.2.4)	Anna Maria Bigatti	09 Aug 2018 10:36	Various	100	10.0
1177	Normal	File names: use "SparsePolyOps" prefix for pertinent files	Anna Maria Bigatti	03 Aug 2018 16:18	Various	100	6.66