

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
1789	CoCoALib		Urgent	GradingMat with negative weights should complain (or deal with them properly!!)	Anna Maria Bigatti	18 Mar 2024 16:15	Improving	100
1769	CoCoALib		Normal	FixedDivisor is sometimes surprisingly slow	John Abbott	22 Dec 2023 20:57	Improving	100
1768	CoCoALib		Normal	Limit indentation in verbose mesgs?	John Abbott	22 Jan 2024 10:36	Improving	100
1761	CoCoALib		Normal	MakeTermOrdMat: improve error mesg	John Abbott	13 Mar 2024 21:16	Improving	100
1755	CoCoALib		High	CheckForInterrupt: give more info?	John Abbott	22 Dec 2023 20:56	Improving	100
1754	CoCoALib		Normal	IsSqFree poorly implemented	John Abbott	23 Feb 2024 11:39	Improving	100
1739	CoCoALib		Normal	IsHomog for ideals	Anna Maria Bigatti	01 Mar 2024 14:57	Improving	100
1735	CoCoALib		Normal	PushFront/PushBack without checks?	John Abbott	08 Mar 2024 14:38	Improving	100
1721	CoCoALib		Normal	Verbose messages: print level?	Anna Maria Bigatti	12 Apr 2023 14:56	Improving	100
1719	CoCoALib		Normal	FactorINT has got worse	John Abbott	22 Apr 2024 20:00	Improving	100
1716	CoCoALib		Normal	Qn: factor for BigInt	John Abbott	14 Mar 2023 21:32	Improving	100
1641	CoCoALib		High	gcd does not recognize univariate input	John Abbott	21 Mar 2024 20:18	Improving	100
1633	CoCoALib		Normal	Make polynomial multiplication interruptible?	John Abbott	04 Feb 2022 21:24	Improving	100
1627	CoCoALib		Normal	Use keyword "delete" for deleted functions	John Abbott	04 Feb 2022 21:23	Improving	100
1606	CoCoALib		Normal	Return type with const	John Abbott	21 Mar 2024 20:24	Improving	100
1598	CoCoALib		Normal	RingHom: implement phi(X) as apply(phi, X) also for X vector and matrix	Anna Maria Bigatti	18 Feb 2022 15:24	Improving	100
1589	CoCoALib		Normal	IdealOfPoints: allow matrix of points to be defined over "wrong" ring	Anna Maria Bigatti	04 Feb 2022 22:07	Improving	100
1579	CoCoALib		Low	Readexpr/RingElem: unhelpful error message when input is wrong	John Abbott	23 Feb 2024 12:39	Improving	100
1569	CoCoALib		Normal	IsInRadical too slow (test-RadicalMembership)		01 Mar 2024 18:40	Improving	100
1558	CoCoALib		Normal	CpuTimeLimit: more frequent clock checks	John Abbott	20 Sep 2021 15:41	Improving	100
1557	CoCoALib		Normal	Reading list of rationals is too slow	John Abbott	10 Mar 2023 18:23	Improving	100
1517	CoCoALib		Low	RandomLinearForm	John Abbott	04 Feb 2022 21:31	Improving	100
1511	CoCoALib		Normal	Use C++14 constexpr	John Abbott	16 Mar 2024 21:55	Improving	100
1467	CoCoALib		Normal	Change syntax apply(phi,M) into phi(M)?	John Abbott	18 Feb 2022 15:24	Improving	100
1466	CoCoALib		Normal	Ops += *= etc for Matrices?	John Abbott	08 Aug 2022 20:01	Improving	100
1462	CoCoALib		Normal	Change CoCoA_ERROR into CoCoA_THROW_ERROR	John Abbott	14 Oct 2020 14:06	Improving	100
1458	CoCoALib		Normal	Redesign interrupt mechanism?	John Abbott	07 Mar 2022 10:07	Improving	100
1457	CoCoALib		Normal	Make SmoothFactor interruptible	John Abbott	26 Oct 2020 21:37	Improving	100
1434	CoCoALib		Normal	GBasisByHomog for DegLex	Anna Maria Bigatti	06 Mar 2020 17:41	Improving	100
1423	CoCoALib		Normal	Radical 0-dim NYI? missing case for GBasisByHomog	Anna Maria Bigatti	25 Sep 2020 16:58	Improving	100

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1391	CoCoALib		Normal	RingElems: syntax with [ and ] ?	Anna Maria Bigatti	08 Jan 2021 13:03	Improving	100
1380	CoCoALib		Normal	Make IsZeroDim more robust	John Abbott	10 Jan 2020 12:29	Improving	100
1377	CoCoALib		Normal	CpuTimeLimit: limit "intervals" between full checks	John Abbott	11 Feb 2020 12:09	Improving	100
1376	CoCoALib		Normal	GBasisTimeout: not working as expected	John Abbott	16 Sep 2021 13:51	Improving	100
1375	CoCoALib		Normal	Radical 0-dim: varied timings	John Abbott	04 Feb 2022 21:20	Improving	100
1347	CoCoALib		Normal	New function: ctor of PPVector with vector<RingElem>	Anna Maria Bigatti	29 Oct 2019 19:44	Improving	100
1330	CoCoALib		Normal	New syntax for NewQuotientRing	Anna Maria Bigatti	15 Oct 2019 17:52	Improving	100
1329	CoCoALib		Normal	New syntax for creating homomorphisms (PolyAlgebraHom)	Anna Maria Bigatti	09 Nov 2020 10:03	Improving	100
1319	CoCoALib		Normal	Problem rebuilding dependencies when file PREPROCESSOR_DEFNS.H does not exist	John Abbott	11 Feb 2020 12:22	Improving	100
1309	CoCoALib		Normal	SmoothFactor: allow limit = 1?	John Abbott	10 Oct 2019 18:45	Improving	100
1302	CoCoALib		Normal	Factorization mod p	John Abbott	10 Oct 2019 19:12	Improving	100
1283	CoCoALib		Normal	Printing for (prime) finite fields	John Abbott	10 Oct 2019 18:46	Improving	100
1257	CoCoALib		Normal	C++14: use nullptr	John Abbott	15 Oct 2019 14:09	Improving	100
1250	CoCoALib		Urgent	SEGV: CoCoALib with Normaliz in multithreading	Anna Maria Bigatti	10 Oct 2019 19:12	Improving	100
1249	CoCoALib		Normal	principal ideal has a Gbasis	Anna Maria Bigatti	10 Oct 2019 19:12	Improving	100
1238	CoCoALib		Urgent	ReadExpr is too slow on long lists of monomial with many indets: ---> use RingElems instead	Anna Maria Bigatti	12 Feb 2020 09:44	Improving	100
1205	CoCoALib		Urgent	SyzOfGens: bug with zero generators	Anna Maria Bigatti	03 Aug 2018 18:09	Improving	100
1203	CoCoALib		Normal	factor over algebraic extensions	Anna Maria Bigatti	31 Jul 2018 13:13	Improving	100
1181	CoCoALib		Normal	CpuTime is costly!	John Abbott	31 Jul 2018 14:25	Improving	100
1165	CoCoALib		Normal	MinPoly over QQ: verification may be very slow	Anna Maria Bigatti	03 Aug 2018 17:37	Improving	100
1162	CoCoALib		Normal	Check semantics of NoSmallFactorSeq	John Abbott	03 Aug 2018 16:01	Improving	100
1136	CoCoALib		Low	IsInRadical: sometimes a bit slow	John Abbott	09 Dec 2019 13:34	Improving	100
1110	CoCoALib		Normal	Determinant of matrix over QQ (whose entries are actually integers)	John Abbott	03 Aug 2018 15:56	Improving	100
1105	CoCoALib		Normal	Primary Decompositon (zero-dim) slow cases	Anna Maria Bigatti	10 Oct 2019 19:20	Improving	100
1088	CoCoALib		Normal	MinPolyQuot: runs out of primes	Anna Maria Bigatti	08 Nov 2017 14:39	Improving	100
1086	CoCoALib		Normal	New design for interrupt mechanism	John Abbott	08 Nov 2017 16:31	Improving	100
1064	CoCoALib		Normal	Bug in MinPolyModular (ugly prime)	Anna Maria Bigatti	10 Nov 2017 12:16	Improving	100
1052	CoCoALib		Normal	ReadExpr(P, string) and RingElem(P, string) in CoCoALib	Anna Maria Bigatti	10 Nov 2017 12:34	Improving	100
1042	CoCoALib		Low	LF curiously slow (breaking a poly into homog pieces)	John Abbott	06 Nov 2017 15:17	Improving	100
1036	CoCoALib		Normal	LogStream: stream for log output	John Abbott	22 Apr 2017 22:52	Improving	100
1035	CoCoALib		Normal	Improvement: how to sort QuotientBasis?	John Abbott	06 Nov 2017 15:53	Improving	100

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1030	CoCoALib		Normal	IsInRadical: case of homog ideal	John Abbott	28 Nov 2017 17:56	Improving	100
1016	CoCoALib		Normal	ReducedGBasis for RingWeyl (and other non-commutative rings)	Anna Maria Bigatti	28 Apr 2017 16:05	Improving	100
1009	CoCoALib		Normal	coefficients for MinPoly e Frobenius	Anna Maria Bigatti	03 Aug 2018 17:16	Improving	100
976	CoCoALib		High	configure: auxiliary scripts should be consistent about error messages	John Abbott	09 Jan 2020 22:10	Improving	100
971	CoCoALib		Normal	CheckForInterrupt does not work in the expected way	John Abbott	28 Apr 2017 09:30	Improving	100
969	CoCoALib		Normal	Output to bad stream (operator<< and myOutput): just return immediately	John Abbott	11 Feb 2020 18:07	Improving	100
962	CoCoALib		Normal	General verbose mode?	John Abbott	08 Nov 2017 16:29	Improving	100
952	CoCoALib		Normal	GCD very slow	John Abbott	30 Oct 2019 22:39	Improving	100
936	CoCoALib		Normal	ReadExpr: cannot handle exponent which is not integer literal	John Abbott	18 Nov 2016 22:22	Improving	100
931	CoCoALib		Normal	GBasis verbose mode	Anna Maria Bigatti	29 Apr 2017 08:36	Improving	100
910	CoCoALib		Normal	BigRat: read from a string in "decimal" format?	John Abbott	18 Nov 2016 22:37	Improving	100
908	CoCoALib		High	Sum of ideals: what are the generators of $(x) + (0)$ ?	Anna Maria Bigatti	08 Mar 2024 14:34	Improving	100
897	CoCoALib		Normal	SimplestBigRatBetween: why is it so slow?	John Abbott	16 Sep 2021 13:47	Improving	100
895	CoCoALib		Normal	NumDigits: sometimes gives wrong answer	John Abbott	28 Apr 2017 09:30	Improving	100
881	CoCoALib		Normal	ReadExpr is too slow on large polys	John Abbott	08 Nov 2017 15:59	Improving	100
786	CoCoALib		Normal	MemPool: review min and max loaf sizes	Anna Maria Bigatti	16 Sep 2021 13:38	Improving	100
773	CoCoALib		Normal	DMPZmerge: make non-recursive	John Abbott	23 Mar 2016 15:00	Improving	100
764	CoCoALib		Normal	ExternalLib: simplify configuration	Anna Maria Bigatti	03 Aug 2018 17:33	Improving	100
747	CoCoALib		Normal	New function for making list of symbols (indeterminate names)	John Abbott	01 Feb 2016 14:21	Improving	100
736	CoCoALib		Normal	QuotientRing: is it correct to prohibit quotient by ideal(1)?	Anna Maria Bigatti	27 Jan 2020 17:43	Improving	100
730	CoCoALib		Normal	Stats in GBMill (GReductor)	Anna Maria Bigatti	20 Nov 2017 16:12	Improving	100
722	CoCoALib		Low	valuation slow for large inputs	John Abbott	07 Oct 2020 22:11	Improving	100
721	CoCoALib		Normal	CheckForInterrupt: string arg to specify where it was called?	John Abbott	01 Jul 2015 18:12	Improving	100
718	CoCoALib		Normal	Insert calls to CheckForInterrupt	Anna Maria Bigatti	22 Apr 2024 21:35	Improving	100
705	CoCoALib		Normal	DetDirect calls myAddMul with 0 argument -- funny compilation problem??	Anna Maria Bigatti	26 Jun 2015 16:15	Improving	100
691	CoCoALib		Normal	Matrix determinant over ZZ	John Abbott	10 Oct 2019 18:46	Improving	100
689	CoCoALib		Normal	Fault tolerant rational reconstruction: make bad factor publicly accessible	John Abbott	01 Jul 2015 18:04	Improving	100
64	CoCoALib		Normal	submat takes only vector<long>	John Abbott	08 Mar 2024 17:17	Improving	100