

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
827	CoCoALib		Immediate	NewPositiveMat also for matrices over QQ? Also NewIntegerOrdMat. (now called MakeTermOrd)		20 Jan 2017 14:26	Tidying	100
311	CoCoALib		Immediate	XelMat, StdDegRevLexMat, ... should be MatrixView	John Abbott	20 Jan 2017 15:16	New Function	100
1295	CoCoALib		Urgent	Never use "using namespace .." in header files	John Abbott	29 Oct 2019 12:00	Portability	100
805	CoCoALib		Urgent	New type for "constant" matrices?	John Abbott	28 Apr 2017 09:30	Data Structures	100
592	CoCoALib		Urgent	Review design of ConstMatrixView	John Abbott	29 Sep 2016 16:03	Tidying	100
855	CoCoALib		High	Copyright and authorship?	John Abbott	15 Mar 2023 08:06	Portability	100
1085	CoCoALib		High	Fns with "OUT" args: should they give ERR::MixedRings?	John Abbott	21 Mar 2024 20:29	Safety	100
829	CoCoALib		High	PPOrderingCtor: name of mem fn which actually constructs?	John Abbott	10 Nov 2017 15:09	Tidying	100
415	CoCoALib		High	Remove AsPolyRing etc?	John Abbott	17 Jul 2014 14:29	Tidying	100
891	CoCoALib		High	Replace auto_ptr in preparation for C++11?	John Abbott	25 Mar 2019 15:45	Portability	100
822	CoCoALib		High	Should ElimMat return a ConstMatrix	Anna Maria Bigatti	28 Apr 2017 15:16	Tidying	100
908	CoCoALib		High	Sum of ideals: what are the generators of $(x) + (0)$ ?	Anna Maria Bigatti	08 Mar 2024 14:34	Improving	100
1182	CoCoALib		Normal	"mod" for BigInt	John Abbott	03 Aug 2018 16:27	Tidying	100
1649	CoCoALib		Normal	Add file SparsePolyOps-vector.C	Anna Maria Bigatti	25 Mar 2024 17:49	Tidying	100
1159	CoCoALib		Normal	Add global enum "verify/DontVerify"	John Abbott	25 Jun 2018 15:06	Data Structures	100
794	CoCoALib		Normal	ar gives warnings on fedora 23	John Abbott	17 Feb 2021 09:59	Portability	100
1689	CoCoALib		Normal	Automatic mapping of RHS in += etc	John Abbott	16 Feb 2024 17:35	Tidying	100
584	CoCoALib		Normal	BaseRing for all rings	John Abbott	31 Jul 2014 16:55	New Function	100
1180	CoCoALib		Normal	BigRat(0) unexpectedly compiles! (calls ctor with mpq_t arg)	John Abbott	15 Jan 2021 17:13	Safety	100
1563	CoCoALib		Normal	BigRat: ctor from machine int	John Abbott	29 Jan 2021 11:26	Safety	100
1166	CoCoALib		Normal	C++11: allows large integer literals (in NumTheory-prime.C)	John Abbott	07 Mar 2024 20:49	Portability	100
581	CoCoALib		Normal	C++14: MachineInt	John Abbott	18 Feb 2022 15:26	Portability	100
1257	CoCoALib		Normal	C++14: use nullptr	John Abbott	15 Oct 2019 14:09	Improving	100
1063	CoCoALib		Normal	Catching an (expected) error	Anna Maria Bigatti	08 Nov 2017 14:24	Documentation	100
982	CoCoALib		Normal	Catching interrupts in example progs?	John Abbott	09 Jan 2020 22:29	Tidying	100
1462	CoCoALib		Normal	Change CoCoA_ERROR into CoCoA_THROW_ERROR	John Abbott	14 Oct 2020 14:06	Improving	100
1467	CoCoALib		Normal	Change syntax apply(phi,M) into phi(M)?	John Abbott	18 Feb 2022 15:24	Improving	100
1162	CoCoALib		Normal	Check semantics of NoSmallFactorSeq	John Abbott	03 Aug 2018 16:01	Improving	100
641	CoCoALib		Normal	Clean test-FreeModule1	Anna Maria Bigatti	26 Jun 2015 16:58	Tidying	100
1753	CoCoALib		Normal	Clean up EulerTotient, InvTotient jungle in NumTheory-misc	John Abbott	29 Mar 2024 08:25	Tidying	100

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932	CoCoALib		Normal	CoCoALib configuration: BOOST dependency	John Abbott	27 Jan 2020 15:25	Portability	100
560	CoCoALib		Normal	CoCoALib/io.H	John Abbott	15 May 2014 14:26	Tidying	100
999	CoCoALib		Normal	configuration: include -std=c++03 by default?	John Abbott	08 Nov 2017 17:08	Portability	100
1413	CoCoALib		Normal	configure script: MODE option obsolete?	John Abbott	11 Feb 2020 13:13	Documentation	100
1019	CoCoALib		Normal	CPP flags in installed library	John Abbott	24 Apr 2017 17:55	Portability	100
1377	CoCoALib		Normal	CpuTimeLimit: limit "intervals" between full checks	John Abbott	11 Feb 2020 12:09	Improving	100
1558	CoCoALib		Normal	CpuTimeLimit: more frequent clock checks	John Abbott	20 Sep 2021 15:41	Improving	100
404	CoCoALib		Normal	deg(F,X) instead of MaxExponent(F,X) ?	John Abbott	20 May 2014 09:47	Renaming	100
339	CoCoALib		Normal	DenseUPolyClean uses size_t	John Abbott	28 May 2013 18:57	Portability	100
411	CoCoALib		Normal	design of factorization template class	John Abbott	03 Apr 2014 11:54	Tidying	100
1065	CoCoALib		Normal	Design: should we allow an ideal to change ring?	John Abbott	07 Sep 2023 08:25	Data Structures	100
1653	CoCoALib		Normal	Discriminant: return value	John Abbott	04 Feb 2022 21:52	Various	100
1608	CoCoALib		Normal	Domain of definition of NextPrime (and PrevPrime)	John Abbott	20 Oct 2021 22:09	Tidying	100
268	CoCoALib		Normal	Exponent range (in power products)	John Abbott	08 Oct 2015 12:10	Safety	100
764	CoCoALib		Normal	ExternalLib: simplify configuration	Anna Maria Bigatti	03 Aug 2018 17:33	Improving	100
950	CoCoALib		Normal	factor and SmoothFactor for integers --> FactorINT, FactorINT_TrialDiv, FactorINT_PollardRho	John Abbott	13 Mar 2023 22:02	Safety	100
429	CoCoALib		Normal	factorization: public data fields, or mem fns allowing the fields to be updated.	John Abbott	17 Apr 2014 09:50	Safety	100
1144	CoCoALib		Normal	File names, coding conventions: Fns, Ops, Operations? part 1		19 Dec 2017 07:44	Renaming	100
1145	CoCoALib		Normal	File names, coding conventions: Fns, Ops, Operations? part 2	John Abbott	03 Aug 2018 16:17	Renaming	100
1177	CoCoALib		Normal	File names: use "SparsePolyOps" prefix for pertinent files	Anna Maria Bigatti	03 Aug 2018 16:18	Various	100
824	CoCoALib		Normal	Fn names: LexMat or MatLex; StdDegRevLexMat or MatStdDegRevLex etc	John Abbott	24 Mar 2016 18:01	Renaming	100
854	CoCoALib		Normal	Function MakeTermOrd should be renamed MakeTermOrdMat?	Anna Maria Bigatti	28 Mar 2024 16:25	Renaming	100
815	CoCoALib		Normal	GlobalManager: Imminent disaster should be a proper error	John Abbott	28 Apr 2017 09:32	Tidying	100
819	CoCoALib		Normal	GradingMat: does anyone need it?	Anna Maria Bigatti	24 Mar 2016 11:58	Tidying	100
1771	CoCoALib		Normal	Hadamard bound: field names	John Abbott	22 Dec 2023 21:31	Renaming	100
254	CoCoALib		Normal	How to return a Hilbert Series in CoCoALib	John Abbott	17 Apr 2014 15:19	New Function	100
1515	CoCoALib		Normal	Indets in coeffring are ringelems in coeffring?	John Abbott	27 Oct 2020 18:01	Tidying	100
1523	CoCoALib		Normal	Input fns: action when when istream is in bad state?	John Abbott	17 Feb 2021 11:01	Safety	100
1529	CoCoALib		Normal	INPUT questions	John Abbott	17 Feb 2021 11:02	Safety	100
535	CoCoALib		Normal	IO: move GlobalInput etc to CoCoA server!	John Abbott	15 May 2014 14:58	Tidying	100

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377	CoCoALib		Normal	IsDivisible -- exact semantics?	John Abbott	17 Apr 2014 09:21	Maths Bugs	100
1500	CoCoALib		Normal	IsDivisible in a field?	John Abbott	23 Oct 2020 10:57	Safety	100
498	CoCoALib		Normal	IsIntegralDomain, lamIntegralDomain3	John Abbott	17 Apr 2014 09:50	Tidying	100
825	CoCoALib		Normal	IsPositiveGrading -- really need 2 signatures?	John Abbott	03 Aug 2018 17:01	Tidying	100
1232	CoCoALib		Normal	IsPrime(0)	John Abbott	29 Oct 2018 18:00	Various	100
1768	CoCoALib		Normal	Limit indentation in verbose mesgs?	John Abbott	22 Jan 2024 10:36	Improving	100
1528	CoCoALib		Normal	MacOS compilation with clang	John Abbott	23 Feb 2022 11:38	Tidying	100
649	CoCoALib		Normal	Make SmallFpImpl safer to use	John Abbott	02 Feb 2016 12:36	Safety	100
786	CoCoALib		Normal	MemPool: review min and max loaf sizes	Anna Maria Bigatti	16 Sep 2021 13:38	Improving	100
1326	CoCoALib		Normal	Modify function myElim so that it returns ideal? (not quite)	Anna Maria Bigatti	18 Mar 2024 16:03	Tidying	100
683	CoCoALib		Normal	Module index component in internal compressed representation	Anna Maria Bigatti	15 Dec 2017 16:37	Documentation	100
619	CoCoALib		Normal	Modulus (for CRTMill) ambiguous	John Abbott	25 Jun 2015 18:12	Renaming	100
642	CoCoALib		Normal	Move code in test file into namespace CoCoA	John Abbott	25 Jun 2015 17:15	Portability	100
1124	CoCoALib		Normal	Move examples directory into doc -- or just change makefile?	Anna Maria Bigatti	03 Aug 2018 17:04	Documentation	100
1409	CoCoALib		Normal	myTestIsPrimary & Co. : fix design	Anna Maria Bigatti	30 Apr 2020 14:20	Safety	100
1389	CoCoALib		Normal	myZeroPtr and myOnePtr	John Abbott	13 Jan 2020 12:07	Data Structures	100
1460	CoCoALib		Normal	Name of TensorMat; change to KroneckerProd?	John Abbott	29 Oct 2020 15:01	Renaming	100
1086	CoCoALib		Normal	New design for interrupt mechanism	John Abbott	08 Nov 2017 16:31	Improving	100
410	CoCoALib		Normal	New file: BigRatOps	John Abbott	03 Aug 2018 16:15	Renaming	100
1223	CoCoALib		Normal	NewPolyRing default indet names	John Abbott	10 Oct 2019 19:13	Safety	100
291	CoCoALib		Normal	NewZZmod and NewRingFp: improve manual, clarify implementation	John Abbott	03 Apr 2014 11:54	Tidying	100
789	CoCoALib		Normal	NumTheory: behaviour of InvMod when inverse does not exist	John Abbott	08 Nov 2017 17:44	Safety	100
602	CoCoALib		Normal	OrdMat: should it be a reference to a MatrixView in all PPOOrderings?	John Abbott	23 Mar 2016 15:24	New Function	100
1735	CoCoALib		Normal	PushFront/PushBack without checks?	John Abbott	08 Mar 2024 14:38	Improving	100
1716	CoCoALib		Normal	Qn: factor for BigInt	John Abbott	14 Mar 2023 21:32	Improving	100
1221	CoCoALib		Normal	Reconsider design for accessing headers and libs of external libraries	John Abbott	09 Oct 2020 13:54	Portability	100
1655	CoCoALib		Normal	Remove ability to compile CoCoALib against UNINSTALLED gmp?	John Abbott	14 Feb 2022 10:00	Safety	100
1106	CoCoALib		Normal	Remove READLINE from CoCoALib	John Abbott	22 Apr 2024 20:24	Tidying	100
511	CoCoALib		Normal	Rename file TmpFactor to factor	John Abbott	17 Apr 2014 09:49	Renaming	100
816	CoCoALib		Normal	Rename isqrt to FloorSqrt (following ilog renaming to FloorLog)	John Abbott	02 Feb 2016 14:13	Renaming	100
408	CoCoALib		Normal	Rename MatrixArith to MatrixOperations	John Abbott	17 Apr 2014 09:48	Renaming	100
1336	CoCoALib		Normal	Rename SparsePolyOps-MonomialIdeal into SparsePolyOps-IdealMonomial?	Anna Maria Bigatti	15 Oct 2019 17:33	Renaming	100

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1547	CoCoALib		Normal	Require decimal mode for ostream?	John Abbott	04 Feb 2022 21:50	Safety	100
1606	CoCoALib		Normal	Return type with const	John Abbott	21 Mar 2024 20:24	Improving	100
1538	CoCoALib		Normal	RingElem from string (ReadExpr)	John Abbott	16 Sep 2021 12:54	Various	100
1391	CoCoALib		Normal	RingElems: syntax with [ and ] ?	Anna Maria Bigatti	08 Jan 2021 13:03	Improving	100
1184	CoCoALib		Normal	should BeginIter(RingElem) be in SparsePolyIter or in SparsePolyOps-RingElem?	John Abbott	12 Feb 2020 18:17	Tidying	100
1366	CoCoALib		Normal	Should configure remove the file ERR_MESSAGES if it's empty?	John Abbott	12 Feb 2020 15:57	Tidying	100
1693	CoCoALib		Normal	SizeInBase: obsolete	John Abbott	07 Oct 2022 15:25	Tidying	100
1309	CoCoALib		Normal	SmoothFactor: allow limit = 1?	John Abbott	10 Oct 2019 18:45	Improving	100
1163	CoCoALib		Normal	Split SparsePolyRing.C in smaller files	Anna Maria Bigatti	02 Aug 2018 17:04	Renaming	100
64	CoCoALib		Normal	submat takes only vector<long>	John Abbott	08 Mar 2024 17:17	Improving	100
1647	CoCoALib		Normal	Suppress zero from ideal generators? Detect 1 and simplify generators?	Anna Maria Bigatti	25 Mar 2024 19:02	Data Structures	100
1259	CoCoALib		Normal	ThreadsafeCounter is now obsolete?	John Abbott	14 Oct 2019 15:15	Tidying	100
1279	CoCoALib		Normal	Tidy up code for matrix determinant	John Abbott	29 Oct 2020 21:48	Tidying	100
859	CoCoALib		Normal	Twin-float: comparisons and equality test	John Abbott	25 Jun 2016 14:11	Tidying	100
1617	CoCoALib		Normal	UnivariateIndetIndex: exact semantics	John Abbott	12 Nov 2021 11:44	Tidying	100
1511	CoCoALib		Normal	Use C++14 constexpr	John Abbott	16 Mar 2024 21:55	Improving	100
1627	CoCoALib		Normal	Use keyword "delete" for deleted functions	John Abbott	04 Feb 2022 21:23	Improving	100
1625	CoCoALib		Normal	Use new C++ keyword override	John Abbott	04 Feb 2022 21:48	Safety	100
1721	CoCoALib		Normal	Verbose messages: print level?	Anna Maria Bigatti	12 Apr 2023 14:56	Improving	100
983	CoCoALib		Normal	Which ostream for verbose/obsolescent log mesgs?	John Abbott	28 Apr 2017 09:35	Tidying	100
806	CoCoALib		Low	AssignZero for matrix	John Abbott	23 Mar 2016 15:31	Safety	100
1463	CoCoALib		Low	SmoothFactor: use FactorMultiplicity	John Abbott	29 Oct 2020 21:44	Tidying	100