

## CoCoALib - Issues

#	Project	Parent task	Priority	Subject	Assignee	Updated	Category	% Done
6	CoCoALib		High	Sort out RingElem, RefRingElem, ConstRefRingElem mess	John Abbott	01 Aug 2014 08:59		0
113	CoCoALib		Normal	Introduce PartialHom	John Abbott	09 Jul 2014 18:04	New Function	10
125	CoCoALib		Normal	Matrix equation solving; linear system solving	John Abbott	18 Mar 2024 10:00	New Function	50
127	CoCoALib		Normal	Convert DUPFF code to C++	John Abbott	28 Sep 2022 15:04	New Function	50
143	CoCoALib		Urgent	Buchberger-Moeller (parent task)	John Abbott	10 Jul 2014 14:16	New Function	38
145	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Urgent	Buchberger-Moeller: fast modular impl	John Abbott	10 Jul 2014 14:17	New Function	0
147	CoCoALib	Feature #143: Buchberger-Moeller (parent task)	Urgent	Buchberger-Moeller: impl via modular reduction	John Abbott	10 Jul 2014 14:18	New Function	20
353	CoCoALib		Normal	Missing documentation and tests for myRecvTwinFloat	John Abbott	14 Jul 2014 14:40	Documentation	0
383	CoCoALib		Normal	Resolution/morse: integrate Mario Albert's code into CoCoALib	John Abbott	31 Jul 2014 14:57	New Function	60
385	CoCoALib		Urgent	Design new errors using inheritance	John Abbott	09 Feb 2024 10:25	Tidying	40
396	CoCoALib		Normal	PPMonoidElemAlias: redesign PPMonoidElem the same way as RingElem?	John Abbott	13 May 2015 09:57	Data Structures	0
440	CoCoALib		High	Port RealRoots to C++	John Abbott	19 Oct 2016 10:26	New Function	0
565	CoCoALib		Normal	FloatApprox for TwinFloat values?	John Abbott	19 Jul 2016 22:44	New Function	20
575	CoCoALib		Normal	Investigate using cmake for configuration	John Abbott	13 Mar 2024 21:19	Portability	10
620	CoCoALib		Normal	Redesign CRTMill	John Abbott	21 Mar 2016 14:30	New Function	20
644	CoCoALib		Normal	Buchberger-Moeller: add option to stop as soon as 1 poly has been found	John Abbott	06 Nov 2017 13:58	New Function	0
664	CoCoALib		Urgent	Impl small non-prime finite fields (using logs)	John Abbott	14 Mar 2023 19:49	New Function	80
665	CoCoALib		Normal	Integrate Janet/Pommaret basis code	John Abbott	12 Jun 2018 18:36	New Function	10
680	CoCoALib		Normal	DistrMPolyClean does not use MemPool for summands?	John Abbott	07 Mar 2023 20:49	Tidying	70
752	CoCoALib		Normal	Investigate using Boost.build instead of make	John Abbott	28 Apr 2017 11:23	Portability	0
797	CoCoALib		Normal	SmallFpImpl: make it faster	John Abbott	24 Apr 2024 23:04	Improving	20
799	CoCoALib		Low	vector of "indets" in each PPMonoid?	John Abbott	11 Nov 2015 13:47	Improving	20
802	CoCoALib		Urgent	DivMask: extend interface?	John Abbott	08 Mar 2024 17:36	New Function	50
818	CoCoALib		Normal	F5 with 3 args?	John Abbott	24 Nov 2015 10:11	Tidying	10
828	CoCoALib		Normal	MachineInt: function for checking that value is greater than some lower limit (and below MAXLONG)	John Abbott	15 Apr 2024 10:08	New Function	20
846	CoCoALib		Normal	Islrred: correct design?	John Abbott	26 Feb 2019 16:32	Improving	20
872	CoCoALib		Urgent	LinSolve for matrices over FFp	John Abbott	08 Mar 2024 17:36	Improving	30

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874	CoCoALib		Normal	factor: too slow on largish multivariate poly	John Abbott	26 Feb 2019 16:29	Improving	20
894	CoCoALib		Normal	strict enum types: C++11 extension	John Abbott	25 Apr 2024 21:49	Safety	30
933	CoCoALib		Normal	Separate configure scripts for CoCoALib and CoCoA-5	John Abbott	23 Jan 2024 21:52	Portability	10
1089	CoCoALib		Normal	invalid pointer in "free"	John Abbott	20 Jul 2017 13:06	Various	10
1115	CoCoALib		Normal	New class: exterior algebra	John Abbott	31 Jan 2024 21:59	Data Structures	20
1125	CoCoALib		Normal	Separate install script for CoCoALib?	John Abbott	23 Jan 2024 21:54	Tidying	0
1160	CoCoALib		Normal	Clean up revised RatReconstructByContFrac code	John Abbott	26 Feb 2019 16:33	Tidying	0
1176	CoCoALib		Normal	interval arithmetic	John Abbott	10 Mar 2023 17:46	New Function	50
1197	CoCoALib		Normal	IsZeroDet: new fn	John Abbott	08 Mar 2024 17:58	New Function	40
1233	CoCoALib		High	factor SEGV -- too large characteristic	John Abbott	14 Mar 2023 19:45	Maths Bugs	60
1263	CoCoALib		Normal	Tidy CoCoALib test directory	John Abbott	07 Mar 2023 20:49	Tidying	80
1280	CoCoALib		High	Determinant & Inverse of matrix over non integral domain	John Abbott	21 Jan 2024 19:43	Improving	40
1572	CoCoALib		Normal	Use noexcept	John Abbott	23 Apr 2024 21:57	Improving	70
1576	CoCoALib		Normal	cmp for machine integers	John Abbott	21 Jan 2024 20:23	Improving	20
1642	CoCoALib		Normal	interreduce: make monic if over finite field?	John Abbott	16 Feb 2024 20:44	Improving	20
1683	CoCoALib		Immediate	IsIrred in ZZ[x,y]	John Abbott	16 Feb 2024 09:39	Improving	0
1703	CoCoALib		Normal	Threadsafty, multithreading: optional fn arg (or separate fn)	John Abbott	07 Mar 2024 20:04	Safety	80
1705	CoCoALib		Normal	ProgressReporter: prepare for new loop?	John Abbott	25 Apr 2024 21:40	Improving	80
1733	CoCoALib		Low	FactorINT: funny order	John Abbott	22 Apr 2024 19:51	Improving	60
1748	CoCoALib		Normal	July 2023	John Abbott	08 Mar 2024 08:29	Various	0
1750	CoCoALib		Normal	IdealOfPoints: allow duplicate points?	John Abbott	08 Mar 2024 18:23	Improving	20
1756	CoCoALib		Normal	deg(f) is slow if f is long	John Abbott	21 Mar 2024 20:40	Improving	50
1787	CoCoALib		Normal	Iterator design: compatible with C++STL? Advancing beyond end?	John Abbott	23 Apr 2024 22:26	Tidying	30
1804	CoCoALib		Normal	Use long long (at least sometimes)?	John Abbott	26 Apr 2024 21:09	Portability	80
1811	CoCoALib		Normal	Check include guards	John Abbott	22 Apr 2024 20:15	Tidying	90