

# CoCoA-5

	2024-4				2024-5				2024-6				2024-7				2024-8				2024-9							
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CoCoA	CoCoA-5																											
CoCoA-5	CoCoA-5																											
CoCoA-5 - CoCoA-5.4.2	CoCoA-5																											
Automatic mapping between (some) (...)	CoCoA-5																											
theValue makes copy	CoCoA-5																											
Elim ordering and matrix ordering (...)	CoCoA-5																											
C++11 compatibility questions	CoCoA-5																											
OpenOFile	CoCoA-5																											
Functions throwing error even though (...)	CoCoA-5																											
Janet Bases: port function into (...)	CoCoA-5																											
CoCoA-5 Projects for students (e.g. (...)	CoCoA-5																											
Installation instructions (on website)	CoCoA-5																											
port SmithNormalForm (CoCoA-4)package (...)	CoCoA-5																											
EmacsUI Source/SourceRegion produce (...)	CoCoA-5																											
New keyword " ->"? (same as "return")	CoCoA-5																											
Emacs UI; remove cruft	CoCoA-5																											
Eliminate package BinRepr	CoCoA-5																											
Review utility of package IO	CoCoA-5																											
CoCoAManual: improve part on input/output	CoCoA-5																											
Gaussian Elimination	CoCoA-5																											
Prototype package for Linear Commutative (...)	CoCoA-5																											
Variable It: assign before or after (...)	CoCoA-5																											
Automatic mapping of RingElem (in (...)	CoCoA-5																											
Speed of some Normaliz calls (NmzComputation)	CoCoA-5																											
NotBuiltin.cpkg5: indent for MODULE	CoCoA-5																											
Referring to indets with multiple (...)	CoCoA-5																											
C5 GUI: very slow when printing (...)	CoCoA-5																											
NewPolyRing with weights -- better (...)	CoCoA-5																											

Implicit: make easier to use with (...)  
Add TUTORIALs to online manual  
Clean up CoCoALibSupplement  
Function "ideal" evaluates the (...)  
radical is slow (compared to singular) (...)  
"universal denominator" (related (...)  
Microsoft (Windows 10, maybe other (...)  
Separators for elements of a list  
LinKerBasis is user-unfriendly  
syz: apply to ModuleElem?  
LaTeX package: power-product printing  
CoCoAManual: AffHilbertFn accepts (...)  
Eigenvectors: inconsistent return (...)  
New function: IsEmpty  
IsInRadical: for monomial ideals  
Use Flatpak and/or Snap on Linux?  
RealRoots: first point is sometimes (...)  
RealRoots: rational roots (but (...)  
MinPoly for matrix: fix in cocoalib (...)  
SLUG: filling an array  
append is slow  
ker: for PolyAlgHom from QQ[x,y,z] (...)  
GDPR: website, mailing list  
MSatLinSolve: req minor improvements  
Online manual entry for RingElem (...)  
ShapeLemma: no manual entry  
Split BuiltinFunctions-CoCoALib.C (...)  
Interpreter: fns which accept INT (...)  
Vim Plugin for CoCoA  
Automatic conversion from RINGELEM (...)  
CoCoA-5 manual: incorrect empty (...)  
CoCoA manual: entry for operators, (...)  
Package Edgeldeal not documented  
New function: find ?

**GFan also for Microsoft?**  
**GUI with Qt5**  
**thmproving package**  
**Manual entry for NewPolyRing**  
**MakeTerm: implement in C++**  
**Stack overflow reading long list (...)**  
**HTML manual: search using keywords?**  
**Emacs UI: cocoa5-shell-check-process (...)**  
**Surprising parser error: INT+DOT+IDENTIFIER**  
**Automatic way to produce statically (...)**  
**Use symbolic links for release (...)**  
**Filenames in release CoCoAManual/html (...)**  
**IntersectList or IntersectionList**  
**Get indexed indets from a polyring**  
**Website: link to JSAG?**  
**HilbertSeries: make into proper (...)**  
**Lin alg with polys**  
**Packages: questions from Andraschko**  
**Documentation for making ring with (...)**  
**Emacs UI: indentation in a package**  
**Use "special" names for variables (...)**  
**SystemCommand in Microsoft version**  
**More flexible ring creation syntax (...)**  
**Initial ring**  
**Interpreter fn Value::from can (...)**  
**RingElem and IndetSymbols not compatible**  
**Install CoCoA-5 on MacOS-10.15+**  
**New functions: argmin, argmax**  
**Website: installation instructions (...)**  
**foreach with ref to list entry?**  
**CoCoA coding conventions for parser/interpreter?**  
**CoeffOfTerm: in CoCoALibSupplement**  
**Man page for UniversalGBasis**  
**Add sagbi package**

**Emacs: avoid making buffer visible (...)**  
**subst: not checking args properly**  
**DivAlg slower than NR**  
**elim for modules**  
**Geometrical theorem proving package**  
**What does rad do?**  
**RMap and image: obsolescent?**  
**ApproxSolve: very imprecise**  
**ApproxSolveTF**  
**Slow sqfr: rad(f)**  
**New fn ElapsedTimeFrom?**  
**Multiline string literals (again)**  
**Unhelpful behaviour in "compatibility (...)**  
**SqFreeFactor crashes over non-perfect (...)**  
**UnivariateIndetIndex: remove cocoa-5 (...)**  
**Doc for the various BuiltIn files**  
**EmacsUI: annoying colours**  
**NewMat: should be obsolescent?**  
**RingElem slow with many indets**  
**Use filesystem::path instead of (...)**  
**Missing/Incomplete manual entries**  
**MinSubsetOfGens sometimes very (...)**  
**RealRoots: crashes after interrupting**  
**MinSubsetOfGens does not find min (...)**  
**Allow user to choose whether to (...)**  
**ApproxSolve and RationalSolve take (...)**  
**Potentially confusing prompt: waiting (...)**  
**Jordan Normal Form?**  
**GCDList not documented**  
**Refactor C++ impl in OnlineHelp**  
**Version 5.4.0 requires Visual C++ (...)**  
**BuiltinFunctions-GFan includes (...)**  
**Should Starting be case-insensitive?**  
**Manual entry for random (see also)**

**Release CoCoA 5.4.2**  
**boost-find-lib.sh**  
**Which BOOST libs are actually needed?**  
**Specifying BOOST in configure**  
**indent: return a string?**  
**Preliminary packages**  
**Linux: just 1 executable, should (...)**  
**Test tut-CoCoLA2**  
**IsDivisible error (in QuotRing)**  
**CRASH: equality test to a FUNCTION**  
**FactorINT with time-out**  
**New function: AdjacentMinors**  
**Fix call to HilbertPoly in test/TutHokkaido5**  
**Documentation/Manual for HilbertFn**  
**Printing of Hilbert series via (...)**  
**ManExamples target: need to reset (...)**  
**NewPolyRing with indices -- better (...)**  
**Quitting can be slow**  
**Emacs 29: Removal of obsolete entries**  
**Continued fraction: arg type RAT (...)**  
**GenReprCompute: SERIOUS ERROR**  
**Do not use random inside tests!!**  
**Makefile problem: needlessly relinks (...)**