	2024-5				2024-6				2024-7					2024-8				2024-9				2024-10			
	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
CoCoA																									
Web site: mailto link for bugs, suggestions (...)																									
Look of first Redmine page linked from CoCoA (...)																									
ApCoCoA																									
New ApCoCoA UI																									
Interactive window and history mechanism																									
Input tabbed windows associated to files																									
ApCoCoA projects																									
ApCoCoA: separate window for manual																									
How to connect GUI to cocoa5 executable?																									
CoCoA-5	CoCoA-5																								
intersection																									
Hermite normal form																									
RingID: remove this function?																									
Profiling with clang																									
CanonicalHom																									
Manual of functions vs ManExamples																									
CoCoA-5 releases on redmine																									
CoCoA-5 - CoCoA-5.4.2																									
Automatic mapping between (some) (...)																									
theValue makes copy																									
Elim ordering and matrix ordering (...)																									
C++11 compatibility questions																									
OpenOFile																									
Functions throwing error even though (...)																									
Janet Bases: port function into (...)																									
CoCoA-5 Projects for students (e.g. (...)																									
Installation instructions (on website)																									

port SmithNormalForm (CoCoA-4)package (...)

EmacsUI Source/SourceRegion produce (...)

Emacs UI; remove cruft

Eliminate package BinRepr

Review utility of package IO

CoCoAManual: improve part on input/output

Gaussian Elimination

Prototype package for Linear Commutative (...)

Speed of some Normaliz calls (NmzComputation)

NotBuiltin.cpkg5: indent for MODULE

Referring to indets with multiple (...)

Implicit: make easier to use with (...)

Add TUTORIALs to online manual

Clean up CoCoALibSupplement

Function "ideal" evaluates the (...)

"universal denominator" (related (...)

Microsoft (Windows 10, maybe other (...)

Separators for elements of a list

LinKerBasis is user-unfriendly

CoCoAManual: AffHilbertFn accepts (...)

Eigenvectors: inconsistent return (...)

IsInRadical: for monomial ideals

Use Flatpak and/or Snap on Linux?

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 EdgeIdeal 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

Documentation for making ring with (...)

Emacs UI: indentation in a package

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

foreach with ref to list entry?

CoCoA coding conventions for parser/interprer?

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

RMap and image: obsolescent?

ApproxSolveTF

Slow sqfr: rad(f)

New fn ElapsedTimeFrom?

SqFreeFactor crashes over non-perfect (...)

Doc for the various BuiltIn files

EmacsUI: annoying colours

NewMat: should be obsolescent?

Use filesystem::path instead of (...)

Missing/Incomplete manual entries

MinSubsetOfGens sometimes very (...)

RealRoots: crashes after interrupting

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

BuiltinFunctions-GFan includes (...)

Should Starting be case-insensitive?

Manual entry for random (see also)

Release CoCoA 5.4.2

Preliminary packages

Linux: just 1 executable, should (...)

Documentation/Manual for HilbertFn

ManExamples target: need to reset (...)

NewPolyRing with indices -- better (...)

Continued fraction: arg type RAT (...)

GenReprCompute: SERIOUS ERROR

Do not use random inside tests!!

Makefile problem: needlessly relinks (...)

CoCoA-5 - CoCoA-5.4.4

    Approximate BuchbergerMoeller: (...)

    CoCoAManual: General part of the (...)

    Emacs UI: keywords in multiline (...)

    Emacs UI: send-file (C-c C-f) should (...)

    Manual: remove old stuff about (...)

    Revive old CoCoA4 package called (...)

    Emacs UI: slow with long lines

    Poor memory management?

    Disable readline if input is redirected

    SLUG: RationalSolve slow and stupid

    Add CoCoA5 function NmzHilbertBasisKer

    BuiltinOneLiners -- less precise (...)

    CantStop playing CantStop

    Unexpected or unhelpful error using (...)

    Refine Poset impl & doc

    Verbosity level in CoCoA5

    EvalPolyAtMat

    Make it easy to run the tests in (...)

    Better error mesg for 1.2.3.4?

    CoCoA web site "analytics"

    Difference between seealso and (...)

    Add CoCoA-5 syntax: syz(<F,> list (...)

    New function ModuleElems? (like (...)

CoCoA-5 - CoCoA-5.?.?

    (short) manual for emacs interface

    GUI: open file "with C5"

    Error/warning if fn-proc is neither (...)

    sort is too slow

BringIn should map only the indets (...)
rethrow in Try .. UponError .. (...)
I:f (IDEAL and RINGELEM) -- (...)
Qt GUI: Make better distinction (...)
GUI: Add an edit menu to the top (...)
C-c C-p in emacs goes to wrong (...)
Negate LIST, MAT,...
Template for unaryMinus?
InputForm for output readable as (...)
Appunti per (eventuale) tesi triennale (...)
More curiously slow code -- squaring (...)
Add LucasTest to cocoa5?
TeXmacs interface
--fullCoCoALibError prints too (...)
Which functions are defined in (...)
Documentation for Parser/Interpreter
GUI: message "running.." (close (...)
system variables
Colon operator, 2nd arg
allow single function call in "use" (...)
Hilbert: Redesign hp.cpkg5 and (...)
port optimized resolutions to CoCoA-5
intersection (all lower case)
Allow user to give a name to a (...)
Bug or feature for protected name? (...)
Emacs UI: Name of emacs init file
Emacs UI: very slow when input (...)
Assignment to protected variable
Port function NewSymbol/NewSymbols (...)
Automatic conversion from INT (or (...)
interpolate
Emacs UI: indentation is wrong (...)
Eliminate keyword Alias?
gcd too slow for large degree univariate (...)

Unique copies of rings in CoCoA-5
Warning about variable hiding another (...)
ScalarProduct accepts MatrixRow?
Cleaning: Cruft in CoCoA-5 packages
New C5 fn for adjusting the warning (...)
Toric: resurrect function TestSet (...)
New operators: += -= *= /=
Resurrect MakeCheck()
GUI: better name for the graphical (...)
efficient subalgebras
Interpreter.C: remove calls to (...)
GUI: qutting provokes Imminent (...)
Add functions based on MayerVietorisTree
Output Betti numbers
Windows-GUI: compilation with MinGW
New operations? ScalarProduct(MODULELEM,LIST), (...)
Unique copies of free modules?
Emacs UI: use "warning colour" (...)
MakeSet can be very slow
eval: in which ring should the (...)
use command, ring syntax, RingOf
Ring ID: separate index values (...)
Emacs UI: endfunc does not indent (...)
Emacs UI: C-c C-\ copies line cursor (...)
NUL char in input terminates CoCoA-5
Emacs UI: swapped splitting
Credits to CoCoA-5 contributors
Add more operations for modules
External Libs: missing dependencies (...)
External libs: specifying I/O streams (...)
Primary Decomposition in CoCoA-5
Elementary transcendental functions (...)
IsDefined does not follow reference (...)
New function: LeastDegPolynomial (...)

CoCoA type "cone"

Emacs UI: send-region and send-line (...)

floor, ceil, and NearestInt for (...)

append has bad complexity

Interpreter is too slow reading (...)

subst: allowed also for indets (...)

LOGAR: make CoCoA-5 easier to use

Escaped newline to allow a long (...)

When is a semicolon needed to end (...)

use command: unhelpful error if (...)

CallOnGroebnerFanIdeals: better (...)

Empty matrix: warning, error, or (...)

ciao, exit, quit can be used not (...)

Improve coverage of CoCoA-5 tests

Managing credits

New function: IdealAndSeparatorsOfPoints

New function: MakeMultiset?

CoeffSize: function to measure (...)

GroebnerFanIdeals: order matrices (...)

init file obligatory?

New function: RingQQi()? extension (...)

New syntax for creating poly rings?

External dependencies for building

Example of slow LEX GBasis computation

ScalarProduct: exact defn and manual (...)

Improve error message when args (...)

CoCoAManual: improved search, or (...)

PolyRing constructor: NewOrdvArith (...)

EmacsUI: interrupt copies line (...)

GUI: bugs and slugs

CoCoA Online: install (using InteractiveShell)

Port RowMat, ColMat, MatByRows,... (...)

Generic Timeout for CoCoA-5?

Latex: matrix

New function: gin for algebraic (...)
CoCoA should read unicode
Allow Interruption of printing?
incr and decr are slow
New Fn: make a homogeneous list (...)
LinearSimplify: somtimes not optimal
Matrixrow-functions
Create a directory
Emacs UI: open manual pages in (...)
Clean up package points.cpkg
User forum?
Windows: Qt-Gui does not link correctly
Daft slug
CoCoALib
  CoCoALib - CoCoALib-0.99880
    Matrix equation solving; linear (...)
    Improve threadsafety
    Matrix equation solving: LinKer
    Printing polynomials - spaces between (...)
    Play with GIT
    Error: ERR::NotNonZero instead (...)
    Elim(vector<long>) as PPOrderingCtor
    Syzygy for modules: non-homogeneous (...)
    Error codes: use same code for (...)
    LongRange: in which file should (...)
    Impl small non-prime finite fields (...)
    DistrMPolyClean does not use MemPool (...)
    MatrixOrderingMod32749Impl: test (...)
    Update normaliz interface?
    Better errors: give supplementary (...)
    SLUG: elimination
    Test whether a symbol is in a ring
    DivMask: extend interface?
    Implement "elim" in CoCoALib
	CoCoALib

Cleanup MinPoly code

implicit, ImplicitHypersurface: (...)

Redesign ideals

LinSolve for matrices over FFp

strict enum types: C++11 extension

New function: cardinality of finite (...)

FlagManager for bool/bool3 flags

MachineInt or long for args which (...)

Separate configure scripts for (...)

MachineInt: change semantics?

IsRadical for ideal?

New function: multiplicity and (...)

Improve saturate

Slug: Polynomial ring contructor (...)

CoCoALib - CoCoALib-0.99900

Redmine Administration

Design new errors using inheritance

Which names to use? Intersection/saturation (...)

New function: IdealWithIncrementalGBasis(I, (...)

Documentation: translation table

CoCoALib - CoCoALib-1.0

Sort out RingElem, RefRingElem, (...)

List of all functions in CoCoALib

printing polynomials

keywords in documentation

Cleanup header for ring classes (...)

Error Codes

automatic creation of all function (...)

Introduce PartialHom

Ideals of polynomials

LT over QQ: surprisingly slow

IdealOfPoints with generic coeffs

New datastructures directory

Convert DUPFF code to C++

Better GCD

Design problem in ideals

Convenience ring ctors and homs

Buchberger-Moeller (parent task)

    Buchberger-Moeller: fast modular (...)

    Buchberger-Moeller: impl via (...)

Buchberger-Moeller: input conversions

Makefile dependencies

RingOf rather than owner? (and (...)

Iterated CanonicalHom

GCD normalization (e.g. monic)

Convert old "task table" into redmine

IsStdGraded: add for PPOrdering, (...)

PPWithMask needs checking

Example for change of coordinates (...)

HilbertBasis from Normaliz: full-lattice (...)

Generator for random ring elements

Documentation for QBGenerator needs (...)

No test for QBGenerator

Approx QIR

Transcribe C4 code for GCD in QQ[x]

Multivariate lifting

Move the various <matrix>::mySetEntry (...)

Forward declarations

Eliminate class RefPPMonoidElem?

Store unique copy of FF(p) in GlobalManager

Global setting: to use IsProbPrime (...)

PrimeField -- new fn?

Modules design: brainstorming

Compilation on M$Windows: Visual (...)

FreeModule: unique copy?

Add doc for ApproxPts2

submodule constructor different (...)

C++ nasty surprises

Why is DMPI slower than DMPClean?	
Module homs	
Missing documentation and tests (...)	
CoCoAServer: what future, what (...)	
Resolution/morse: integrate Mario (...)	
add resolution data type	
implement algorithm(s) for resolutions	
PPMonoidElemAlias: redesign PPMonoidElem (...)	
add myHilbertSeries member field (...)	
add myJBMill member field to ideal	
NewFreeModule of dimension 0	
Minimal syzygies (optimized implementation)	
Allow user to give a name to a (...)	
Error names and error messages (...)	
Semantics of IsPrintedWithMinus	
Improve UPoly eval at BigRat for (...)	
MemPool: order free blocks?	
Polynomial multiplication (product (...)	
Port RealRoots to C++	
Eigenvectors	
Which sets of generators in an (...)	
LinearSimplify: port to CoCoALib	
Unique copies of rings -- smart (...)	
Clang: automatic bug finding	
Documentation: write doc for RingDenseUPolyClean	
Quick/correct flag for bool3 fns	
Fn to "flatten" muliple polynomial (...)	
Make squarefreefactor work in multiple (...)	
FloatStr uses too much memory	
Functions to clean up a factorization	
elim using RingTwinFloat triggers (...)	
add myResolution member field (...)	
Reconsider overloaded virtual mem (...)	
Subrings	

Temporary file for experimentation	
FloatApprox for TwinFloat values?	
Documentation for ReductionCog	
Allow use of RingElem instead of (...)	
Split SparsePolyRing.H into two (...)	
Investigate using cmake for configuration	
New function for printing with (...)	
Implement gin (generic initial (...)	
Problem with template instantiation (...)	
configure: check all libraries (...)	
Redesign CRTMill	
Wikipedia	
Gaussian integer and rationals (...)	
Complex twin-floats	
Shadow CoCoA namespace to help (...)	
What is test-Dynamic1.C	
Buchberger-Moeller: add option (...)	
Unique copies of free modules?	
Optimized algorithms for implicitization (...)	
Laurent polynomials	
Integrate Janet/Pommaret basis (...)	
factor: multivariate + finite characteristic	
Matrix determinant over multivariate (...)	
Credits to CoCoALib contributors	
Accumulator (like a geobucket)	
MemPool: make it easier to get (...)	
PPMonoid: add fn to check for overflow (...)	
Use DivMask inside QBGenerator	
myAddMul in poly rings	
PolyAlgebraHom (PolyRingHom) evaluate (...)	
Fault tolerant rational reconstruction: (...)	
Remove cruft from test files	
Add more operations between modules (...)	
Example database: Slow ideal equality (...)	

Noncommutative algebra "of solvable (...)
Betti numbers, betti diagram
Extend homomorphism to polynomial (...)
Addition of sparse (multivariate) (...)
View PP exponent vector (and order (...)
Problem with GBasis in tower of (...)
Investigate using Boost.build instead (...)
configure: have option to say to (...)
GlobalManager: initialization compatible (...)
ExternalLib-CDD: (needed by GFan)
CoCoALib cone
PPMonoid with 1 extra "exponent"?
CRTMill::myAddInfo accept modulus (...)
Makefile: problem not seeing when (...)
GroebnerFan/ExternalLib-GFan: improve (...)
threadsafety: Scott Meyers's advice (...)
finite fields: global register (...)
Remove refcounts from RingElem?
No doc for DistrMPolyInlFpPP
Clean code for DistrMPolyClean
SmallFpImpl: make it faster
vector of "indets" in each PPMonoid?
PPOrdering: use it to compute WDeg?
Alg Extn by non-zero dim ideal
FastCmp for degree -- useful?
PPMonoid pseudo-ctor without explicit (...)
GenRepr in CoCoALib?
F5 with 3 args?
Sparse matrices
MachineInt: function for checking (...)
Generalize grading matrix
UIBC: need include file in RingWeyl.C
Make Mario's new code threadsafe
factor is very slow on some simple (...)

Differential algebra	
SparsePolyIter: make more compatible (...)	
GINV: alex basis	
NewPolyRing: tidy up the many different (...)	
PPMonoidSparse: comparisons are (...)	
IsIrred: correct design?	
SmallFpImpl: different repr for (...)	
bool3: add some logical operations?	
factor: too slow on largish multivariate (...)	
Impl faster multiplication for (...)	
DistrMPolyInIPP::myPushFront and (...)	
IsIrred3: fast 3-way irred test (...)	
myIsEqual, myCmp: direct comparisons (...)	
SmallFpDouble: which impl of InvMod (...)	
External libraries: keep copy of (...)	
Read input from SymbolicData database	
New function: quorem for univariate (...)	
Hilbert Driven GBasis	
Design GBMill	
Fn to read symbol range (SymbolRange)	
Documentation: check layout of (...)	
Printing TwinFloat as (rational) (...)	
LinDepMill: Mill for linear dependencies	
Slow NF example	
Weights in ElimMat?	
ex-PolyIterator	
QIR/RealRootRefine: improve behaviour (...)	
GFan: require version newer than (...)	
GCD: add special case if args are (...)	
Poly ring homomorphism to change (...)	