



Benjamin Jones <benjaminfjones@gmail.com>

[sage-release] Sage 5.1 released

Jeroen Demeyer <jdemeyer@cage.ugent.be>

Wed, Jul 11, 2012 at 3:14 AM

Reply-To: sage-release@googlegroups.com

To: sage-announce@googlegroups.com

Cc: sage-release@googlegroups.com, sage-devel <sage-devel@googlegroups.com>

Sage 5.1 was released on 09 July 2012. It is available in source and binary form from:

* <http://www.sagemath.org/download.html>

Sage (<http://www.sagemath.org/>) is developed by volunteers and combines over 90 open source packages. For instructions about installing Sage, see

* <http://www.sagemath.org/doc/installation>

The following page lists the platforms on which Sage should work:

* <http://wiki.sagemath.org/SupportedPlatforms>

If you have any questions and/or problems, please report them to any of these Google groups:

* sage-support: <http://groups.google.com/group/sage-support>

* sage-devel: <http://groups.google.com/group/sage-devel>

You can also drop by in #sagemath on freenode or post your questions at <http://ask.sagemath.org/>

The following 85 people contributed to this release. Of those, 13 made their first contribution to Sage:

- Alex Ghitza
- Alexander Dreyer
- Alexei Sheplyakov
- Andrey Novoseltsev
- Andrzej Giniewicz
- André Apitzsch
- Anne Schilling
- Antonio Russo [first contribution]
- Benjamin Jones
- Bjarke Hammersholt Roune
- Burcin Erocal
- Charles Bouillaguet [first contribution]
- Christian Stump
- Damiano Testa [first contribution]
- Dan Drake
- Daniel Krenn
- Darij Grinberg [first contribution]
- David Coudert
- David Eklund
- David Loeffler

- David Roe
- Douglas McNeil
- Ethan Van Andel
- Florent Hivert
- Francis Clarke
- Franco Saliola
- Fredrik Johansson
- Frithjof Schulze
- Frédéric Chapoton
- Harald Schilly
- Hugo Tremblay [first contribution]
- Itai Bar-Natan
- Ivan Andrus
- Jan Pöschko [first contribution]
- Jan Vonk
- Jason Grout
- Jean-Pierre Flori
- Jeroen Demeyer
- Jim Stark
- Johan Sebastian Rosenkilde Nielsen
- John Connor [first contribution]
- John Cremona
- John Palmieri
- John Perry
- Julian Rueth
- Karl-Dieter Crisman
- Keshav Kini
- Kevin Halasz [first contribution]
- Leif Leonhardy
- Maarten Derickx
- Marco Streng
- Mariah Lenox
- Marshall Hampton
- Martin Albrecht
- Mathieu Guay-Paquet
- Michael Orlitzky
- Mike Hansen
- Nathann Cohen
- Nick Alexander
- Nicolas Borie
- Nicolas M. Thiéry
- Nils Bruin
- Oriol Castejon
- Paul Zimmermann
- Peter Jeremy
- Punarbasu Purkayastha
- R. Andrew Ohana
- Rob Beezer
- Robert Bradshaw
- Robert Gerbicz [first contribution]
- Ryan Grout
- Sebastian Pancratz
- Simon King
- Stefan Reiterer
- Stephen Montgomery-Smith [first contribution]
- Sébastien Labbé
- ThanhVu Nguyen [first contribution]
- Timo Kluck [first contribution]

- Titus Nicolae [first contribution]
- Tom Boothby
- Tom Denton
- Travis Scrimshaw
- Viviane Pons
- Volker Braun
- William Stein

* Release manager: Jeroen Demeyer.

* We closed 206 tickets in this release. For details, see

<http://boxen.math.washington.edu/home/release/sage-5.1/tickets.html>

Closed tickets:

#1206: doc testing support for numerical computations with randomish output is insufficient [Reviewed by Maarten Derickx]
 #2210: make [checkversion.pl](#) complain about old XCode releases [Reviewed by Jeroen Demeyer]
 #3524: Buildbot [Reviewed by Maarten Derickx]
 #5774: running "make" on a -bdisted binary is broken [Reviewed by Jeroen Demeyer]
 #7205: fix the list of old sage releases website [Reviewed by Harald Schilly, Jeroen Demeyer]
 #8975: Methods missing for reducible root systems [Reviewed by Keshav Kini]
 #9621: Fix GAP interface problem in sylow_subgroup method [Reviewed by Simon King, Johan Sebastian Rosenkilde Nielsen, Mike Hansen]
 #10696: SymmetricGroup function doesn't seem to do arbitrary sets [Reviewed by Mike Hansen]
 #11831: multivariate factorization over finite fields and Proof=false [Reviewed by Paul Zimmermann]
 #7436: frobby optional spkg doesn't build on a lot of machines [Reviewed by Benjamin Jones]
 #8783: frobby optional spkg doesn't build with newer GCC's [Reviewed by Benjamin Jones, Bjarke Hammersholt Rouné]
 #12843: Volker Braun, William Stein: Make zeromq and pyzmq optional packages [Reviewed by Benjamin Jones]
 #12870: Mariah Lenox: update optional package openssl to version 1.0.1a [Reviewed by William Stein]
 #13007: Mike Hansen: Update to Frobby 0.9.0 [Reviewed by Benjamin Jones]
 #8151: wrong file permissions in lie-2.2.2.p3.spkg [Reviewed by Keshav Kini]
 #9950: Oriol Castejon: Change Brian package from experimental to optional [Reviewed by Karl-Dieter Crisman]
 #11433: Mike Hansen: Move graphviz-2.16.1.p0.spkg from optional to experimental [Reviewed by Benjamin Jones]
 #12983: Keshav Kini: Fix LiE optional SPKG [Reviewed by R. Andrew Ohana]
 #1842: clean up sage repositories [Reviewed by R. Andrew Ohana]
 #7357: Add non-offset logarithmic integral, Li [Reviewed by Karl-Dieter Crisman]
 #8591: Support for Gurobi [Reviewed by R. Andrew Ohana]
 #9627: converting from symbolic ring to int is broken [Reviewed by Burcin Erocal]
 #9953: int(symbolic expr) off by 1 [Reviewed by Burcin Erocal]
 #10198: Homsets of schemes are wrong [Reviewed by Andrey Novoseltsev]
 #10204: cddlib fails to build on iras [Reviewed by Volker Braun]
 #11773: Elliptic curve constructor with no arguments gives an obscure error message [Reviewed by John Cremona]

#12839: reduced Groebner basis not unique [Reviewed by John Perry]
 #12987: When comparing ideals, try to avoid computing the Gröbner basis of a copy of the ideal [Reviewed by Simon King]
 #13002: Fix Singular interrupt timeout [Reviewed by Jeroen Demeyer]
 #13096: find_maximum_on_interval fails when used with a sage function [Reviewed by Andrzej Giniewicz]
 #8073: deprecation version number should say "After version ..."
 [Reviewed by Volker Braun, Karl-Dieter Crisman]
 #8546: add section on deprecating functions to developer's guide [Reviewed by Volker Braun]
 #12214: polygon documentation in error [Reviewed by Karl-Dieter Crisman]
 #13176: Nick Alexander: Upgrade sage-mode to 0.7 [Reviewed by Ivan Andrus]

Merged in sage-5.1.beta0:

#10113: Simon King: Calling seed() incorrectly causes Sage to crash with SIGSEGV (Segmentation Fault) [Reviewed by Volker Braun]
 #10217: Mike Hansen, André Apitzsch: bug in rings/fast_arith.pyx [Reviewed by Mike Hansen, André Apitzsch]
 #10902: Martin Albrecht: proof=False unnecessary in factor() [Reviewed by Paul Zimmermann]
 #10993: John Cremona: Update eclib to latest upstream release [Reviewed by Frithjof Schulze, Jeroen Demeyer, Volker Braun, Leif Leonhardy]
 #11233: Michael Orlitzky: failing calculation of an integral [Reviewed by Paul Zimmermann]
 #11880: Nathann Cohen: ISGCI in Sage (a Graph Classes database <http://www.graphclasses.org/>) [Reviewed by Nicolas M. Thiéry]
 #11932: John Palmieri: Allow running Sage with a temporary DOT_SAGE directory [Reviewed by Jeroen Demeyer]
 #11943: Simon King: The category graph should comply with Python's method resolution order [Reviewed by Nicolas M. Thiéry]
 #12292: Michael Orlitzky: charpoly is recomputed when called with a different variable [Reviewed by Paul Zimmermann]
 #12361: Volker Braun: Fix normalization in cohomology ring of orbifold toric varieties [Reviewed by David Eklund, Andrey Novoseltsev]
 #12469: Hugo Tremblay: RuntimeError raised by standard_factorization of a finite word [Reviewed by André Apitzsch]
 #12716: David Coudert: MILP formulation and test functions for vertex separation [Reviewed by Nathann Cohen]
 #12724: David Loeffler: Allow different normalizations for Eisenstein series q-expansion [Reviewed by Alex Ghitza, Martin Albrecht, David Roe]
 #12736: John Perry, Nathann Cohen: More solver options for GLPK [Reviewed by Nathann Cohen, John Perry]
 #12743: David Coudert: Addition of reduction rules as pre-processing of the vertex cover function [Reviewed by Nathann Cohen]
 #12748: Martin Albrecht: An inconsistent term order must not be accepted as input of a polynomial ring construction [Reviewed by Simon King]
 #12773: William Stein, John Palmieri: include R interface in reference manual [Reviewed by Andrey Novoseltsev]
 #12777: Jeroen Demeyer: Add signal handling to libecm.pyx [Reviewed by Paul Zimmermann]
 #12787: Jeroen Demeyer: R spkg: use -### instead of -v to detect linker options [Reviewed by Volker Braun]
 #12808: Florent Hivert, Simon King: Optimize ClassCallMetaClass using Cython [Reviewed by Simon King, Florent Hivert]
 #12826: Julian Rueth: minpoly() of quadratic number field element ignores var argument [Reviewed by Francis Clarke]
 #12838: Christian Stump: Root poset should treat type A1 properly

[Reviewed by Frédéric Chapoton]

#12869: Florent Hivert: The warn-links option shouldn't always trigger full doc compilation [Reviewed by Andrey Novoseltsev]

#12872: Nathann Cohen: A show method for permutations [Reviewed by David Coudert]

#12873: Jeroen Demeyer: Clear FPU in i386/x86_64 longjmp() [Reviewed by Volker Braun]

#12875: Nicolas M. Thiéry: Fix the homset category initialization for ModularAbelianVariety's homspaces [Reviewed by Simon King]

#12889: Punarbasu Purkayastha: Make is_irreducible() for polynomials consistent across all fields [Reviewed by Francis Clarke]

#12893: Benjamin Jones: Increase doctest coverage in sage/coding/linear_code.py to 100% [Reviewed by William Stein]

#12903: Nathann Cohen: Memory leaks with CPLEX [Reviewed by David Coudert]

Merged in sage-5.1.beta1:

#6338: Jeroen Demeyer: Support sage --sdist sage-VERSION [Reviewed by Volker Braun]

#8901: Travis Scrimshaw: negative integers in IntegerVectors() [Reviewed by Tom Denton]

#11693: Ivan Andrus: Edges are doubled when creating Graphs with multiedges=True [Reviewed by Nathann Cohen]

#11817: Simon King: Use sage_getdoc in sage interpreter when doing "?" [Reviewed by Volker Braun]

#11919: Michael Orlitzky: Issue when pickling a formal function [Reviewed by Nils Bruin, Burcin Erocal]

#12445: John Palmieri, Jeroen Demeyer: revise Sage banner, help message [Reviewed by Jeroen Demeyer, Karl-Dieter Crisman]

#12614: John Palmieri: prereq should clean up its build directory [Reviewed by Keshav Kini]

#12663: Travis Scrimshaw: Partitions(-1).list() goes into infinite recursion [Reviewed by Tom Denton]

#12770: David Coudert: cartesian product of directed graphs [Reviewed by Frédéric Chapoton, Nicolas M. Thiéry]

#12816: Nathann Cohen: Documentation and list of Graph functions [Reviewed by David Coudert]

#12823: John Perry, Nathann Cohen: Allow constants for objective function & deletion of rows in MixedIntegerLinearProgram [Reviewed by David Coudert, Nathann Cohen]

#12831: Frédéric Chapoton: implement product of posets [Reviewed by Itai Bar-Natan]

#12836: Jason Grout: arrows are shortened too much [Reviewed by Michael Orlitzky]

#12877: Nicolas M. Thiéry: Categories for padics, schemes, and some more rings [Reviewed by Simon King]

#12897: Benjamin Jones: Increase doctest coverage in coding/sd_codes.py to 100% [Reviewed by Punarbasu Purkayastha]

#12910: Jim Stark: Graph construction of empty list fails [Reviewed by Daniel Krenn]

#12919: Nicolas M. Thiéry, Mathieu Guay-Paquet: Typo in Parent.discover_coerce_map_from [Reviewed by André Apitzsch]

#12929: Viviane Pons: Changing default color option for posets [Reviewed by Franco Saliola]

#12936: Michael Orlitzky: Adding plots should (at least attempt to) preserve legend options [Reviewed by Andrey Novoseltsev]

#12937: William Stein: sqlite sometimes picks up the wrong libraries (e.g., readline) since we forgot to set LDFlags [Reviewed by John Connor]

#12939: Keshav Kini: Allow evaluation of univariate polynomials at singleton lists [Reviewed by Francis Clarke]
 #12942: Nathann Cohen: Balaban's 10-Cage [Reviewed by Keshav Kini]
 #12944: Nathann Cohen: Inconcistencies in the documentation of `traveling_salesman_problem` [Reviewed by Keshav Kini]
 #12945: Keshav Kini, Nathann Cohen: Balaban 11-cage [Reviewed by Nathann Cohen, Keshav Kini]
 #12953: Nicolas M. Thiéry: Bindable classes [Reviewed by Franco Saliola]
 #12956: Nicolas M. Thiéry: Let categories override the default implementation of `__getitem__` in `Parent` [Reviewed by Franco Saliola]
 #12961: Nathann Cohen: Documentation of the facade argument in `Poset` contructor [Reviewed by Nicolas M. Thiéry]
 #12975: Burcin Erocal: Fix misleading typo in the doc of "cython" [Reviewed by Simon King]

Merged in sage-5.1.beta2:

#10566: Stefan Reiterer: Update openmpi docu [Reviewed by Volker Braun]
 #11028: Ethan Van Andel: More Modular ComplexPlot [Reviewed by Karl-Dieter Crisman]
 #11383: Ryan Grout, Itai Bar-Natan, Jan Pöschko: `Color('red') == Color('red')` returns `False` [Reviewed by Itai Bar-Natan, Karl-Dieter Crisman, André Apitzsch, Jan Pöschko]
 #11459: Sébastien Labbé: Implement `sage -rst2txt` and `sage -rst2sws` [Reviewed by Keshav Kini]
 #11930: Daniel Krenn, Marco Streng, Damiano Testa: disallow non-smooth hyperelliptic curves, and let hyperelliptic curves know they are not singular [Reviewed by Marco Streng, Damiano Testa, David Eklund]
 #11974: Jason Grout: transformations don't work with a function that returns a singleton numpy array [Reviewed by Karl-Dieter Crisman]
 #12334: Michael Orlitzky: mark all Lie tests as optional "requires LiE" (this is a *very* easy ticket!) [Reviewed by Benjamin Jones]
 #12335: Dan Drake: change `"#optional - jones_database"` to `"#optional - database_jones_numfield"`, and several other similar renames needed [Reviewed by Benjamin Jones]
 #12383: David Roe: Doctest for `sage.categories.category.__repr__` fails interactively [Reviewed by Dan Drake]
 #12393: David Roe: Reseting doctesting state [Reviewed by Volker Braun]
 #12740: David Loeffler: Revamp code for finding generators of modular forms spaces [Reviewed by Jan Vonk]
 #12767: David Loeffler: Clean up dead links in `sage/rings/number_field` documentation [Reviewed by Karl-Dieter Crisman, William Stein, Benjamin Jones]
 #12776: Michael Orlitzky: Add `maxima_lib` to the reference documentation [Reviewed by Karl-Dieter Crisman]
 #12821: Jeroen Demeyer: `testcc.sh`: allow `$CC` to contain multiple words [Reviewed by Leif Leonhardy, R. Andrew Ohana]
 #12874: Nathann Cohen: Recognition of Comparability graphs and Permutation graphs [Reviewed by David Coudert]
 #12950: Volker Braun, Burcin Erocal, Jean-Pierre Flori, Titus Nicolae, Alexei Sheplyakov: update to Pynac 0.2.4 [Reviewed by Jean-Pierre Flori, Burcin Erocal, Benjamin Jones]
 #12952: Nathann Cohen: `DoubleStarSnark`, `FosterGraph`, `GrayGraph` and `HarriesGraph` [Reviewed by Keshav Kini]
 #12960: Punarbasu Purkayastha: legend not properly set in `Graphics().matplotlib()` [Reviewed by Karl-Dieter Crisman]
 #12966: Rob Beezer: Indefinite factorization for exact matrices

[Reviewed by Andrey Novoseltsev]

#12988: Julian Rueth: characteristic() should be an integer [Reviewed by David Roe, Jeroen Demeyer]

#12991: John Palmieri: Don't doctest autogenerated rst files [Reviewed by Keshav Kini]

#13001: Benjamin Jones: Rebase documentation improvements in #1173 to sage-5.0 [Reviewed by Dan Drake]

#13010: William Stein: Mathematica interface message on OS X is out of date [Reviewed by Mike Hansen]

#13033: Jeroen Demeyer: Conversion PARI -> RR fails for large exponents [Reviewed by William Stein]

#13037: Jeroen Demeyer: Remove remaining traces of real quad double field [Reviewed by William Stein]

#13043: Julian Rueth: dir(RIF) contains duplicates [Reviewed by Mike Hansen]

Merged in sage-5.1.beta3:

#7041: Leif Leonhardy: GAP purposely unsets CC which screws up Sun Studio build. [Reviewed by R. Andrew Ohana]

#7597: Michael Orlitzky: segfault in libsingular [Reviewed by Mike Hansen]

#7685: Douglas McNeil: integer.pyx: factor docstring lies about output - fix this [Reviewed by William Stein]

#10164: Robert Gerbicz, Douglas McNeil: Few digits of precision in N(). [Reviewed by Karl-Dieter Crisman, Benjamin Jones]

#10272: Timo Kluck: laurent series truncate behaviour different from power series truncate [Reviewed by Marshall Hampton, Jeroen Demeyer, Karl-Dieter Crisman]

#11309: Keshav Kini, Burcin Erocal: Sage sees $-x + y > 0$, $-y + x \geq 0$, and $x - y > 0$ as equivalent [Reviewed by Karl-Dieter Crisman, ThanhVu Nguyen]

#12340: Benjamin Jones: the optional polymake doctests are seriously misformatted so never run [Reviewed by Mike Hansen]

#12404: Julian Rueth: is_squarefree() incorrect over imperfect fields [Reviewed by Paul Zimmermann, Jeroen Demeyer]

#12438: Andrey Novoseltsev: Definite integral should not depend on the dummy variable [Reviewed by Karl-Dieter Crisman, Benjamin Jones, Douglas McNeil]

#12557: Volker Braun: RDF(1e-17).log() gives NaN [Reviewed by Douglas McNeil]

#12845: Michael Orlitzky: Incorrect doctest in sage/misc/functional.py [Reviewed by Karl-Dieter Crisman]

#13000: David Roe: Creating integers with very large base [Reviewed by Keshav Kini]

#13035: Rob Beezer: Cholesky decomposition over RDF/CDF [Reviewed by William Stein]

Merged in sage-5.1.beta4:

#6812: Nicolas Borie, Simon King: Enumerate integer vectors modulo the action of a Permutation Group [Reviewed by Karl-Dieter Crisman, Simon King, Nicolas Borie]

#10514: Douglas McNeil: legend_label doesn't work when plotting multiple functions at the same time [Reviewed by Karl-Dieter Crisman]

#10678: Dan Drake: properly link "derivative" in sage.symbolic.expression.derivative documentation [Reviewed by Benjamin Jones]

#11155: Alexei Sheplyakov, Titus Nicolae: $\text{abs}(\pi + I) = \pi + I$ [Reviewed by Burcin Erocal]

#11311: Franco Saliola, John Palmieri: engine="pdflatex" in view is ignored [Reviewed by Karl-Dieter Crisman, Franco Saliola, John Palmieri]
 #11608: Rob Beezer: RDF/CDF eigenvalues: symmetric matrices, multiplicities [Reviewed by Volker Braun]
 #11888: Benjamin Jones: Sage is missing the lambert_w function [Reviewed by Keshav Kini, Karl-Dieter Crisman, Fredrik Johansson, Burcin Erocal, Douglas McNeil, William Stein]
 #11951: Douglas McNeil: nth_prime is badly documented [Reviewed by Karl-Dieter Crisman]
 #12076: Mike Hansen: sage-location doesn't deal with packages after initialize_pkgconfig_files has run [Reviewed by Dan Drake, Karl-Dieter Crisman]
 #12195: Robert Bradshaw, Rob Beezer, William Stein: numerical_approx broken for vectors [Reviewed by Rob Beezer, William Stein, Dan Drake]
 #12345: Douglas McNeil: Sympy minus infinity doesn't convert to Sage [Reviewed by Karl-Dieter Crisman]
 #12671: Punarbasu Purkayastha: attaching files which have spaces in absolute path name fails on second run [Reviewed by William Stein]
 #12756: Jeroen Demeyer: interrupt.pyx test: flush buffers before fork() [Reviewed by Volker Braun]
 #12789: Jeroen Demeyer: Move local/bin/sage-check-64 to spkg/bin/sage-arch-env [Reviewed by Volker Braun]
 #12813: Antonio Russo: contour_plot region option [Reviewed by Jason Grout, Karl-Dieter Crisman, Jeroen Demeyer]
 #12971: Nathann Cohen: Biggs-Smith graph [Reviewed by Keshav Kini]
 #12980: Nathann Cohen: Harries-Wong graph [Reviewed by Keshav Kini]
 #12981: Nathann Cohen: Ljubljana Graph [Reviewed by Keshav Kini]
 #12999: Keshav Kini: Color('red') > Color('red') returns True [Reviewed by Karl-Dieter Crisman]
 #13006: Dan Drake: All-paths in a graph blows up when start and end are identical vertices [Reviewed by Rob Beezer, William Stein]
 #13009: Dan Drake: Add blank lines for a couple plots in reference manual [Reviewed by Karl-Dieter Crisman]
 #13018: Rob Beezer: Positive definite check for exact matrices [Reviewed by Dan Drake]
 #13023: Andrey Novoseltsev: Move toric varieties to a dedicated folder [Reviewed by William Stein]
 #13030: Robert Bradshaw: Use pxd file for pynac declarations [Reviewed by Mike Hansen]
 #13095: John Cremona: Update Cremona's table of elliptic curves to 240000 [Reviewed by R. Andrew Ohana]

Merged in sage-5.1.beta5:

#4735: Mike Hansen, Karl-Dieter Crisman: Make e^A for A a generic matrix work [Reviewed by Karl-Dieter Crisman, Mike Hansen]
 #8659: Burcin Erocal: another broken square root simplification [Reviewed by Karl-Dieter Crisman, Mike Hansen]
 #8969: Douglas McNeil: problems with maxima inequalities [Reviewed by Karl-Dieter Crisman]
 #9260: Karl-Dieter Crisman: missing pointer in documentation [Reviewed by Keshav Kini]
 #10617: Sebastian Pancratz: Make polynomial over ZZ call FLINT for composition and evaluation [Reviewed by Tom Boothby, Mike Hansen]
 #11274: Rob Beezer: Cholesky matrix decomposition breaks over the rationals [Reviewed by Dan Drake]
 #11775: Punarbasu Purkayastha: Make pretty_print take multiple arguments [Reviewed by Keshav Kini, William Stein]

#11793: John Palmieri, Mike Hansen: autogenerate doc directories in sage-maketest [Reviewed by Mike Hansen, John Palmieri]
 #11998: Douglas McNeil: Duplicate legends when plotting partial function with detect_poles=True [Reviewed by Keshav Kini, Karl-Dieter Crisman]
 #12088: Andrey Novoseltsev, Volker Braun: Make use of PALP for different dimensions [Reviewed by Volker Braun, Andrey Novoseltsev]
 #12293: Douglas McNeil: Graph(n) is not documented [Reviewed by Dan Drake]
 #12605: Karl-Dieter Crisman: Change the default color of circle and ellipses, etc. back to be the same shade of blue as for all other graphics objects [Reviewed by William Stein]
 #12688: Rob Beezer: Improve documentation of span method [Reviewed by Andrey Novoseltsev]
 #12693: Douglas McNeil: bug in jordan_form(transformation=true) for integer matrices [Reviewed by Rob Beezer]
 #12746: Mike Hansen: Another coercion problem with QQbar [Reviewed by Robert Bradshaw]
 #12810: Nathann Cohen: Broken links in the documentation of graph/ files [Reviewed by Karl-Dieter Crisman]
 #12862: Stephen Montgomery-Smith: The partition function under FreeBSD [Reviewed by Mike Hansen]
 #12884: John Perry: Fix problems introduced by remove_constraint functionality in MIP [Reviewed by Nathann Cohen]
 #12904: André Aplitzsch: colors from rainbow don't work in 3d plots [Reviewed by Karl-Dieter Crisman]
 #12933: Nathann Cohen: Speedup in DiGraph.stronly_connected_components_digraph [Reviewed by David Coudert]
 #12968: Mike Hansen: round of symbolic expression (precision issue due to RR) [Reviewed by Burcin Erocal, Karl-Dieter Crisman]
 #12982: Nathann Cohen: McGeeGraph, Tutte12Cage, TutteCoxeterGraph, WagnerGraph [Reviewed by Keshav Kini]
 #12993: Darij Grinberg, Anne Schilling: Bug in computing the rank function a poset [Reviewed by Christian Stump, Franco Salioia]
 #13005: R. Andrew Ohana: "maximum recursion depth exceeded" when doing change_ring(RR) on an elliptic curve [Reviewed by William Stein]
 #13011: William Stein: several optional tests fail in the sage/mathematica interface with mathematica 8.0 [Reviewed by Mike Hansen, Volker Braun]
 #13012: Andrey Novoseltsev: MatrixSpace is too eager to construct zero matrices [Reviewed by William Stein]
 #13019: Nathann Cohen: longest_path broken for digraphs [Reviewed by Mike Hansen]
 #13045: Rob Beezer: Deprecate cholesky_decomposition() in favor of cholesky() [Reviewed by Dan Drake]
 #13057: John Palmieri: introspection is slow and causes a significant memory leak [Reviewed by Keshav Kini]
 #13091: Jason Grout: Bug in graph tensor_product [Reviewed by David Coudert]
 #13105: William Stein: fix some copyright headers in c_lib [Reviewed by Keshav Kini]

Merged in sage-5.1.beta6:

#10655: John Palmieri: Fix optional animate.py doctests [Reviewed by John Palmieri, Karl-Dieter Crisman]
 #11871: John Palmieri: Fix cellular automata function [Reviewed by Karl-Dieter Crisman]
 #12009: Mike Hansen: optional package gnuplotpy-1.8.spkg causes test failure on sage-4.7.2 [Reviewed by Douglas McNeil, Karl-Dieter Crisman]
 #12634: Punarbasu Purkayastha: detach list of files and also be able to

detach relative filenames [Reviewed by William Stein]
#12911: John Palmieri: fix failing ipython test in tests/cmdline
[Reviewed by Keshav Kini]
#12964: Robert Bradshaw: multiply matrix of matrices by a scalar: boom
[Reviewed by Mike Hansen]
#13034: Andrey Novoseltsev: Fix index in saturation of zero matrices
[Reviewed by William Stein]
#13104: Charles Bouillaguet: BooleanPolynomial.variables() consider "1"
as a variable [Reviewed by Alexander Dreyer, Martin Albrecht]
#13108: Kevin Halasz: A one letter typo in the documentation for the
class DiCyclicGroup [Reviewed by Rob Beezer]
#13116: John Palmieri: The :trac: sphinx role does not work on the
commandline [Reviewed by Volker Braun]
#13118: Jeroen Demeyer: Support GCC version "4.7" in LinBox [Reviewed by
R. Andrew Ohana]
#13122: R. Andrew Ohana: Remove last vestiges of darcs from Sage
[Reviewed by Karl-Dieter Crisman]
#13133: Charles Bouillaguet: BooleanMonomial.index() SEGFAULT on
constant monomials [Reviewed by Alexander Dreyer]
#13134: Jeroen Demeyer: real_double logarithm test fails due to ulp()
bug [Reviewed by Volker Braun]
#13138: John Palmieri: stopgap for #13137: don't run MPIR's self-tests
[Reviewed by R. Andrew Ohana]

Merged in sage-5.1.rc0:

#1172: Keshav Kini: change the watkins license in SAGE_ROOT/COPYING
[Reviewed by R. Andrew Ohana]
#9544: Peter Jeremy, Jeroen Demeyer: Fix flintqs on FreeBSD [Reviewed by
Stephen Montgomery-Smith, Jeroen Demeyer, Karl-Dieter Crisman]
#12855: Jeroen Demeyer: FLINTQS fails to build on Solaris (with GCC
4.7.x) [Reviewed by Karl-Dieter Crisman]
#13152: John Palmieri: add vsyasm, yasm, and yasm to .hgignore
[Reviewed by Jeroen Demeyer]

Merged in sage-5.1.rc1:

#13195: Jeroen Demeyer: import shutil in sage-ptest [Reviewed by Volker
Braun]

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