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[sage-release] Sage 5.4 released

Jeroen Demeyer <jdemeyer@cage.ugent.be>

Mon, Nov 12, 2012 at 1:44 AM

Reply-To: sage-release@googlegroups.com

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

Sage 5.4 was released on 08 November 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 80 people contributed to this release. Of those, 11 made their first contribution to Sage:

- Alejandro Morales [first contribution]
- Alex Csar [first contribution]
- Alexander Dreyer
- Aly Deines
- Andrew Mathas
- Andrey Novoseltsev
- André Apitzsch
- Anne Schilling
- Armin Straub
- Benjamin Jones
- Bjarke Hammersholt Rouné
- Burcin Erocal
- Charles Bouillaguet
- Chris Berg
- Dan Bump
- Dan Drake
- Daniel Bump
- David Coudert
- David Kirkby

- David Roe
- Davide Cervone [first contribution]
- Dmitrii Pasechnik
- Francis Clarke
- Franco Saliola
- François Bissey
- Frédéric Chapoton
- Hugh Thomas
- Jason Bandlow
- Jason Grout
- Jean-Philippe Labbé [first contribution]
- Jean-Pierre Flori
- Jeroen Demeyer
- John Cremona
- John Palmieri
- John Perry
- Jonathan Gutow
- Julian Rueth
- Karl-Dieter Crisman
- Kelvin Li
- Keshav Kini
- Kevin Halasz
- Kiran Kedlaya
- Leif Leonhardy
- Luis Felipe Tabera Alonso
- Luiz Aquino [first contribution]
- Maarten Derickx
- Marco Streng
- Mariah Lenox
- Marshall Hampton
- Martin Albrecht
- Michael Welsh [first contribution]
- Mike Hansen
- Mike Zabrocki
- Nathan Carter
- Nathann Cohen
- Nicolas M. Thiéry
- Nils Bruin
- Paul Zimmermann
- Paul-Olivier Dehaye
- Paulo César Pereira de Andrade
- Punarbasu Purkayastha
- R. Andrew Ohana
- Rob Beezer
- Robert Bradshaw
- Robert Harron
- Samuel Lelievre [first contribution]
- Sarah Chisholm [first contribution]
- Sebastian Luther [first contribution]
- Simon King
- Stefano Leucci [first contribution]
- Stepan Starosta
- Stephen Montgomery-Smith
- Steven Trogdon
- Thomas Feulner [first contribution]
- Tim Dumol
- Titus Nicolae
- Travis Scrimshaw

- Valentin Féray
- Volker Braun
- William Stein

* Release manager: Jeroen Demeyer.

* We closed 127 tickets in this release. For details, see

<http://boxen.math.washington.edu/home/release/sage-5.4/tickets.html>

Closed tickets:

#9238: J. Gutow's update to Jmol in the notebook... [Reviewed by Jason Grout, Karl-Dieter Crisman, William Stein, Jonathan Gutow]
#9428: Internationalize the Sage Notebook [Reviewed by Keshav Kini, Luiz Aquino, Dan Drake, Tim Dumol]
#11471: Add i18n capabilities to the Flask notebook [Reviewed by Keshav kini, Luiz Aquino, Dan Drake, Tim Dumol, Mike Hansen]
#11789: compile python with ssl-support if possible [Reviewed by Jeroen Demeyer]
#11805: Update optional MPC spkg to version 0.9 [Reviewed by Jean-Pierre Flori]
#12089: Dmitrii Pasechnik, Karl-Dieter Crisman, Jean-Pierre Flori: Singular does not build on Cygwin - static libs problem [Reviewed by Karl-Dieter Crisman, Dmitrii Pasechnik, Jean-Pierre Flori]
#12846: Multivariate Factorisation can be randomly slow (over extension fields) [Reviewed by Jeroen Demeyer]
#12918: segmentation fault with multivariate polynomial factorization [Reviewed by Jeroen Demeyer]
#12928: critical bug in multivariate polynomial factorization over GF(2) [Reviewed by Jeroen Demeyer]
#13129: libSingular segmentation fault in factor [Reviewed by Jeroen Demeyer]
#13344: Jean-Pierre Flori, Alexander Dreyer, Jeroen Demeyer: on CYGWIN, Singular LIB files get copied to SAGELOCAL/lib [Reviewed by Dmitrii Pasechnik, Jean-Pierre Flori]
#13384: Keshav Kini: pyOpenSSL SPKG [Reviewed by John Palmieri]
#13410: Robert Bradshaw: Patchbot timeouts [Reviewed by Volker Braun]
#6003: Additions to Cholesky decomposition [Reviewed by Rob Beezer]
#9511: Upgrade Givaro to version 3.7.0 [Reviewed by Volker Braun]
#10153: Canonical generator matrices for linear codes and their automorphism groups [Reviewed by Thomas Feulner]
#11718: Upgrade LinBox to version 1.1.7 [Reviewed by Volker Braun, Martin Albrecht]
#13340: log scale plot fails if xmin > xmax [Reviewed by Punarbasu Purkayastha]
#4319: Update Italian tutorial for #4285 [Reviewed by Jeroen Demeyer]
#7832: singular-3-1-0-4-20090818.p2 - fix compilation on FreeBSD [Reviewed by Stephen Montgomery-Smith]
#13499: Volker Braun: Update TOPCOM to 0.17.4 [Reviewed by Marshall Hampton]
#9965: Make SYMPOW not write to files under global Sage installations [Reviewed by Jeroen Demeyer]
#3302: python_gnutls fails to upgrade on OSX in case Sage was moved [Reviewed by Jeroen Demeyer]
#4797: Run sage -ba instead of sage -b after upgrading Cython [Reviewed by Jeroen Demeyer]
#7511: gnutls-2.2.1 fails to build on HP-UX [Reviewed by Jeroen Demeyer]
#7542: Security issues in gnutls-2.2.1 [Reviewed by Jeroen Demeyer]

#8437: wrong unix rights/permissions of some files after make dist [Reviewed by Jeroen Demeyer]
#9308: Add an spkg-check file for GnuTLS [Reviewed by David Kirkby, Jeroen Demeyer]
#9974: The current (rather old) version of GnuTLS fails to install on AIX 5.3 [Reviewed by Jeroen Demeyer]
#9975: Update GnuTLS and clean up the package [Reviewed by Mariah Lenox, Jeroen Demeyer]
#10624: Slashes disappear in docstrings [Reviewed by John Palmieri]
#12331: updating an spkg may render Sage non-relocatable [Reviewed by Jeroen Demeyer]
#12785: update the faq: no need for gfortran... [Reviewed by Jeroen Demeyer]
#13545: Can't create a symbolic variable named 'lambda' [Reviewed by Nils Bruin, Burcin Erocal]
#13551: Autotools spkg does not build correctly on systems without autotools installed [Reviewed by Jeroen Demeyer]
#12707: Keshav Kini, John Palmieri, Jeroen Demeyer: Update the git spkg [Reviewed by Leif Leonhardy, Volker Braun]
#13150: Jeroen Demeyer: Create an optional GCC-4.7.2 package [Reviewed by Volker Braun]
#13292: Jeroen Demeyer: Bad symlink SAGE_DATA/graphs/graphs.db in binary distributions [Reviewed by Leif Leonhardy]
#13295: Simon King: p_group_cohomology 2.1.3 [Reviewed by John Palmieri]
#13302: Matrix constructor does not return over padic field [Reviewed by Julian Rueth]
#13602: partition distinct parts max part error [Reviewed by Alejandro Morales]

Merged in sage-5.4.beta0:

#5457: Mike Zabrocki, Anne Schilling, Jason Bandlow: Refactor symmetric functions and k-bounded subspace [Reviewed by Dan Bump, Nicolas M. Thiéry, Jeroen Demeyer]
#5489: Mike Hansen, Bjarke Hammersholt Rouné: Add an interface for 4ti2 to Sage [Reviewed by Martin Albrecht, John Palmieri, Marshall Hampton, Frédéric Chapoton]
#9774: Rob Beezer, Davide Cervone, John Palmieri, Jason Grout, Nathan Carter: Use MathJax instead of jsMath [Reviewed by Jason Grout, John Palmieri, Punarbasu Purkayastha, Keshav Kini]
#11021: Leif Leonhardy, Kelvin Li, Jeroen Demeyer: Fix install_package() library function [Reviewed by Kelvin Li, Leif Leonhardy, John Palmieri]
#11305: Travis Scrimshaw: Bijection between Rigged Configurations and Crystal Paths [Reviewed by Anne Schilling]
#11440: Paul-Olivier Dehaye: compute the dimension of partition [Reviewed by Frédéric Chapoton]
#11913: John Palmieri: Notebook hang in ?? source display Trackback [Reviewed by Keshav Kini]
#12299: Jonathan Gutow: Upgrade Jmol to 12.3.27, Advance Jmol Interactive Features in Flask Notebook [Reviewed by Karl-Dieter Crisman, Steven Trogdon, Punarbasu Purkayastha, John Palmieri, Dan Drake]
#12606: Jeroen Demeyer: Fix sage --info <package> [Reviewed by John Palmieri]
#12946: Mike Hansen: Bug in Compositions [Reviewed by Andrew Mathas]
#13121: Keshav Kini: Upgrade sagenb to 0.10.x [Reviewed by John Palmieri, Jonathan Gutow]
#13157: Jeroen Demeyer: inline_fortran is STILL broken on OS X [Reviewed by Karl-Dieter Crisman, Benjamin Jones]
#13231: Alex Csar: Check if a lattice is atomic [Reviewed by Frédéric

Chapoton]

#13237: Jeroen Demeyer, Alexander Dreyer, Dmitrii Pasechnik, Karl-Dieter Crisman, Jean-Pierre Flori: Upgrade Singular [Reviewed by Alexander Dreyer, François Bissey]

#13253: Maarten Derickx: galois_action on cusps has a bug and incorrect documentation [Reviewed by Marco Streng]

#13259: Andrew Mathas: Correcting implementation of "negative" quantum integers [Reviewed by Armin Straub, Nicolas Thiery]

#13294: Stefano Leucci: Add test for not necessarily induced subgraphs to Graph.is_subgraph() method [Reviewed by David Coudert]

#13314: Paul Zimmermann, Jeroen Demeyer: segmentation fault with roots over ComplexField [Reviewed by John Cremona]

#13385: John Palmieri, Keshav Kini: Remove OpenSSL dependency from Sage [Reviewed by Keshav Kini, John Palmieri]

#13389: Keshav Kini: Minor fix to LiE optional SPKG [Reviewed by John Palmieri]

#13390: Stepan Starosta: Non Negative Integers: fix contains method [Reviewed by Mike Hansen]

Merged in sage-5.4.beta1:

#6654: Valentin Féray: New features in group algebra category [Reviewed by Frédéric Chapoton]

#8899: Jason Bandlow, Chris Berg, Franco Saliola, Nicolas M. Thiéry: Implement non commutative symmetric functions [Reviewed by Mike Zabrocki, Franco Saliola, Mike Hansen]

#9906: Leif Leonhardy, Jeroen Demeyer: Move the RPy package outside of the R package [Reviewed by Karl-Dieter Crisman, John Palmieri]

#12883: Paulo César Pereira de Andrade, Martin Albrecht: Update LinBox to most recent upstream release [Reviewed by Volker Braun, Jeroen Demeyer]

#12972: John Cremona: Fix small bug in elliptic curve saturation [Reviewed by Volker Braun]

#12994: R. Andrew Ohana: Serialization of setuptools targets in spkg/standard/deps [Reviewed by Jeroen Demeyer]

#13145: David Roe: Sage's noncommutative rings don't always increment a refcount [Reviewed by Martin Albrecht]

#13164: Paulo César Pereira de Andrade, Martin Albrecht, Jean-Pierre Flori: Update Givaro to 3.7.1 [Reviewed by Volker Braun]

#13284: Alexander Dreyer: Some conversion between BooleanPolynomialRing and QQ[.....] are missing [Reviewed by Charles Bouillaguet]

#13298: John Cremona: Update Cremona's table of elliptic curves to 270000 [Reviewed by R. Andrew Ohana]

#13327: Andrey Novoseltsev: Allow conversion of strings to iterated polynomial rings [Reviewed by Frédéric Chapoton]

#13391: Daniel Bump: WeylCharacterRing improvement [Reviewed by Anne Schilling]

#13395: Jeroen Demeyer: Fix upgrading with GCC [Reviewed by John Palmieri]

#13404: Nicolas M. Thiéry, Mike Zabrocki: Improved printing for symmetric function bases and misc refactoring [Reviewed by Anne Schilling]

#13416: Jeroen Demeyer: Fix GAP dependencies [Reviewed by Volker Braun]

#13427: David Kirkby: Numerical noise causing sage/numerical/optimize.py to fail on SPARC [Reviewed by Volker Braun]

#13428: Jeroen Demeyer: Race condition in R installation [Reviewed by John Palmieri]

Merged in sage-5.4.beta2:

#8908: Jean-Philippe Labbé: Add the Young subgroup method to symmetric

groups [Reviewed by Mike Hansen, Frédéric Chapoton]
#11442: Paul-Olivier Dehaye: Computes the Plancherel measure of an individual partition [Reviewed by Frédéric Chapoton]
#13065: Francis Clarke: `simon_two_descent` not working [Reviewed by John Cremona]
#13107: Titus Nicolae, Burcin Erocal: python long division causing infinite loop [Reviewed by Burcin Erocal, Jean-Pierre Flori]
#13123: R. Andrew Ohana, Jeroen Demeyer: Move `SAGE_DATA` to `SAGE_LOCAL/share` [Reviewed by François Bissey, Jeroen Demeyer]
#13316: Jean-Pierre Flori: Update `pynac` to version 0.2.5 [Reviewed by Burcin Erocal]
#13348: Jeroen Demeyer: Set `CPATH` in `sage-env` [Reviewed by Volker Braun]
#13361: Volker Braun: Report startuptime exclusive children [Reviewed by John Palmieri]
#13362: David Coudert: Fix bug in `build_flow_graph` [Reviewed by Keshav Kini, Nathann Cohen]
#13397: Jeroen Demeyer: `sage-location`: handle `lib64` also [Reviewed by John Palmieri]
#13399: Anne Schilling, Mike Zabrocki: Fixes to symmetric functions [Reviewed by Mike Zabrocki, Anne Schilling]
#13415: Jeroen Demeyer: Prevent unneeded rebuilding when upgrading [Reviewed by John Palmieri]
#13420: Jeroen Demeyer: The usual `#long` time additions [Reviewed by Volker Braun]
#13431: Kevin Halasz: Add `sign` as an alias for signature for permutations [Reviewed by Rob Beezer, John Cremona]
#13443: Jeroen Demeyer: Some clean up of `R` spkg [Reviewed by Karl-Dieter Crisman, John Palmieri]
#13449: Jonathan Gutow: Problem with `testjava.sh` in `jmol` package finding `bash` [Reviewed by Dmitrii Pasechnik]
#13454: Jeroen Demeyer: Fix `odlyzko` database doctests [Reviewed by Volker Braun]
#13455: Andrey Novoseltsev: Remove `jsMath` <> workaround [Reviewed by John Palmieri]
#13457: Jeroen Demeyer: Various small fixes to `sage-bdist` [Reviewed by John Palmieri]
#13462: Aly Deines: quaternion algebra discriminant generalized to number fields [Reviewed by Sarah Chisholm]
#13497: Jeroen Demeyer, John Palmieri: Disable `sage --info` test for `bdists` [Reviewed by John Palmieri]
#13502: Jason Grout: `vector norm` doesn't work with python integers [Reviewed by Rob Beezer]
#13508: John Palmieri: deprecate `jsmath_avoid_list` etc. [Reviewed by Nicolas M. Thiéry]

Merged in `sage-5.4.rc0`:

#3979: Francis Clarke: Power series composition messes up precision [Reviewed by Kiran Kedlaya, Luis Felipe Tabera Alonso, Frédéric Chapoton]
#5160: Jeroen Demeyer: Change name of `misc/sagex_ds.pyx` [Reviewed by Karl-Dieter Crisman]
#11446: Paul-Olivier Dehaye: compute the outline of a partition [Reviewed by Frédéric Chapoton]
#11770: Robert Harron: Add ability to detect CM number fields and take complex conjugate of their elements [Reviewed by Francis Clarke, Jeroen Demeyer]
#12496: Samuel Lelievre, Hugh Thomas: Improve doctest coverage for `integer_ring.pyx` [Reviewed by Hugh Thomas, Jeroen Demeyer]

#12802: John Perry: test containment of ideals in class MPolynomialIdeal [Reviewed by Andrey Novoseltsev, Simon King]
#13289: David Coudert: Determine if a vertex is a cut vertex [Reviewed by Sebastian Luther]
#13444: Anne Schilling, Mike Zabrocki: Doc Tests for book "k-Schur Primer" [Reviewed by Anne Schilling, Mike Zabrocki]
#13459: Jeroen Demeyer: spkg/bin/sage: do not change directory [Reviewed by John Palmieri]
#13509: Aly Deines: Pari nfhnf - hnf over number fields [Reviewed by Jeroen Demeyer]
#13515: Jeroen Demeyer: Support the GCC spkg on Ubuntu 12.04 [Reviewed by Volker Braun]
#13524: Michael Welsh: Error in Linear Algebra constructions [Reviewed by Dmitrii Pasechnik]
#13527: Franco Saliola: modify repr of SubsetAlgebra (example of with realizations) to conform to standards set out in #13404 [Reviewed by Mike Hansen]

Merged in sage-5.4.rc1:

#13512: Francis Clarke: Docstring formatting in misc_c.pyx [Reviewed by Jeroen Demeyer]
#13537: Julian Rueth: Stopgap for 13439 [Reviewed by Volker Braun]
#13544: John Palmieri: Omit .DS_Store when building 'all' documentation [Reviewed by Michael Welsh]

Merged in sage-5.4.rc2:

#7688: Jeroen Demeyer: Remove byte-compiled files from extcode [Reviewed by R. Andrew Ohana]
#9697: Paul-Olivier Dehaye: DS_Store garbage in flint spkg [Reviewed by Karl-Dieter Crisman]
#10738: Volker Braun: insecure temp file in testcc.sh, testcxx.sh [Reviewed by Jeroen Demeyer]
#13579: Jeroen Demeyer, Volker Braun: Python sys.path security risk [Reviewed by Volker Braun, Jeroen Demeyer, David Roe]
#13582: John Palmieri: Add (brief) info about SAGE_TESTDIR to other pieces of doc [Reviewed by Karl-Dieter Crisman]
#13595: Jeroen Demeyer: LD_LIBRARY_PATH potential security risk [Reviewed by Volker Braun]

Merged in sage-5.4.rc3:

#13258: André Apitzsch: Replace some deprecated functions in the documentation [Reviewed by Robert Bradshaw]
#13631: Jeroen Demeyer: Sage refuses to run despite safe directory [Reviewed by Volker Braun]

Merged in sage-5.4.rc4:

#13681: Jeroen Demeyer: fix issues with SAGE_TMP [Reviewed by Volker Braun]

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11/11/12

Gmail - [sage-release] Sage 5.4 released