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**[sage-release] Sage 5.3 released**

1 message

**Jeroen Demeyer** <jdemeyer@cage.ugent.be>

Tue, Sep 11, 2012 at 4:33 PM

Reply-To: sage-release@googlegroups.com

To: sage-announce@googlegroups.com, sage-release@googlegroups.com

Cc: sage-devel &lt;sage-devel@googlegroups.com&gt;

Sage 5.3 was released on 08 September 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 72 people contributed to this release. Of those, 10 made their first contribution to Sage:

- Adrien Brochard [first contribution]
- Alan Lauder [first contribution]
- Alexander Dreyer
- Aly Deines
- Andrey Novoseltsev
- Andrzej Giniewicz
- André Apitzsch
- Anne Schilling
- Benjamin Jones
- Birk Eisermann
- Burcin Erocal
- Charles Bouillaguet
- Chris Berg
- Dan Drake
- Daniel Smertnig [first contribution]
- David Coudert
- David Eklund
- David Kirkby

- David Loeffler
- David Roe
- Dmitrii Pasechnik
- Douglas McNeil
- Eviatar Bach
- Florent Hivert
- Florian Bouyer [first contribution]
- Franco Saliola
- François Bissey
- Frédéric Chapoton
- Guy Achard
- Ivan Andrus
- J Beier [first contribution]
- Jan Vonk
- Jason Grout
- Jean-Pierre Flori
- Jeremy Martin [first contribution]
- Jeroen Demeyer
- Jessica Striker [first contribution]
- John Cremona
- John Palmieri
- Julian Rueth
- Julien Puydt
- Karl-Dieter Crisman
- Keshav Kini
- Kevin Halasz
- Kwankyu Lee
- Lauren Keough [first contribution]
- Laurent Pierron
- Leif Leonhardy
- Luis Felipe Tabera Alonso
- Maarten Derickx
- Marc Masdeu
- Marco Streng
- Mark Shimozone
- Martin Albrecht
- Martin Cross [first contribution]
- Michael Orlitzky
- Mike Hansen
- Mike Zabrocki
- Nathann Cohen
- Nicolas M. Thiéry
- Punarbasu Purkayastha
- Robert Bradshaw
- Simon King
- Sébastien Labbé
- Timo Jolivet
- Timo Kluck
- Travis Scrimshaw
- Vincent Delecroix
- Viviane Pons
- Volker Braun
- William Stein
- 王瑞期 [first contribution]

\* Release manager: Jeroen Demeyer.

\* We closed 108 tickets in this release. For details, see

<http://boxen.math.washington.edu/home/release/sage-5.3/tickets.html>

#### Closed tickets:

#480: Make Sage work with SELinux on Linux [Reviewed by Mike Hansen]  
 #1760: on osx make a symlink sage.command -> sage [Reviewed by Karl-Dieter Crisman]  
 #8668: Sage 6.0 press release [Reviewed by Karl-Dieter Crisman, Jason Grout]  
 #10509: cvxopt: undefined symbol: ilaenv\_ [Reviewed by Volker Braun]  
 #11647: Numerical approximation to one digit [Reviewed by Karl-Dieter Crisman, Julian Rueth, Eviatar Bach]  
 #12201: The new R spkg breaks building from source on at least one OS X system. [Reviewed by Maarten Derickx]  
 #418: Martin Albrecht: Add SAT Solvers [Reviewed by Alexander Dreyer]  
 #3358: [with patch, needs review] Improve the building of eclib (shared/static objects) [Reviewed by François Bissey]  
 #10234: Notebook does not remove files for deleted plots [Reviewed by Andrey Novoseltsev]  
 #12623: PIL package doesn't know about debian multiarch [Reviewed by Julien Puydt]  
 #12624: gdmodule package doesn't know about debian multiarch [Reviewed by Julien Puydt]  
 #13003: numerical evaluation of `erf` crashes PARI at large numbers [Reviewed by Benjamin Jones]  
 #5814: Timo Kluck: %prun doesn't work in the notebook [Reviewed by Keshav Kini]  
 #11510: Do not sdist the SAGE\_ROOT hg repository [Reviewed by Jeroen Demeyer]  
 #11717: sage.schemes.generic.scheme initialization [Reviewed by Volker Braun]  
 #13357: Jeroen Demeyer: Create an experimental autotools spkg [Reviewed by François Bissey]  
 #9904: ATLAS fails to build on OpenSolaris if SAGE\_FAT\_BINARY=yes [Reviewed by Jeroen Demeyer]  
 #10303: clean up sage-check-64 and use of SAGE64 [Reviewed by John Palmieri, David Kirkby, Leif Leonhardy]  
 #10437: f2py and sage : impossible to create a .so lib ? [Reviewed by Jeroen Demeyer]  
 #11077: revise the script sage-check-64 [Reviewed by Jeroen Demeyer]  
 #13405: Jeroen Demeyer, Keshav Kini: Remove old docs when upgrading sagenb [Reviewed by John Palmieri]

#### Merged in sage-5.3.beta0:

#2607: Dan Drake, Andrey Novoseltsev, Andrzej Giniewicz, Volker Braun: find\_minimum\_on\_interval() uses the wrong scipy function [Reviewed by Karl-Dieter Crisman, Mike Hansen, Andrey Novoseltsev]  
 #5612: Adrien Brochard: example of solving a system of linear equations symbolically using symbolic matrices [Reviewed by Marc Masdeu, Benjamin Jones]  
 #10444: Karl-Dieter Crisman: Make solve documentation better [Reviewed by Benjamin Jones]  
 #12043: Alan Lauder: Hecke series for overconvergent modular forms [Reviewed by David Loeffler, Jan Vonk]  
 #12120: Julian Rueth: Improve documentation of numerical\_approx() [Reviewed by Eviatar Bach, Karl-Dieter Crisman]  
 #12140: Mike Zabrocki: Symmetric functions uses lrcalc in symmetrica and

bug fix in skew Schur function indexed by  $[[\cdot], [\cdot]]$  [Reviewed by Anne Schilling]

#12503: Kwankyu Lee: Convenient history fetch commands [Reviewed by Dmitrii Pasechnik]

#12612: Marc Masdeu: Fix `is_unit()` in padics so that it is mathematically correct [Reviewed by David Roe, Robert Bradshaw, Kwankyu Lee]

#12643: Vincent Delecroix: irreducibility of generalized permutation [Reviewed by Frédéric Chapoton]

#12768: David Roe, John Palmieri: Better plotting for isogeny graphs of elliptic curves, and handling of LMFDB labels [Reviewed by John Cremona, Volker Braun]

#12840: Martin Albrecht, John Palmieri: update M4RI to newest upstream release [Reviewed by Simon King, Volker Braun]

#12841: Martin Albrecht: update M4RIE to newest upstream release [Reviewed by Simon King, Jeroen Demeyer, Volker Braun]

#12860: Daniel Smertnig: Incorrect computation of maximal orders in quaternion algebras [Reviewed by Aly Deines]

#12923: Florent Hivert: Comparison of vectors is  $O(n)$  even in the simple cases [Reviewed by Travis Scrimshaw]

#12959: Nicolas M. Thiéry, Franco Saliola: Improvements to `Sets.WithRealizations` [Reviewed by Mike Zabrocki]

#12969: Simon King: Coercion failures in symmetric functions [Reviewed by Anne Schilling]

#13089: David Eklund: Implement weighted projective spaces. [Reviewed by Andrey Novoseltsev]

#13100: John Cremona: `EllipticCurve_from_j` (over  $\mathbb{Q}\mathbb{Q}$ ) should not always compute minimal twist [Reviewed by David Roe]

#13218: David Roe: Laurent series ring doesn't carry over default prec [Reviewed by Robert Bradshaw]

#13224: Anne Schilling: Implementation of test method for slender posets [Reviewed by Chris Berg]

#13229: Alexander Dreyer: Adding `'DegNegLex'` to `TermOrder` [Reviewed by Martin Albrecht]

#13233: J Beier: Add simple SST poset to the posets examples [Reviewed by Jessica Striker, Anne Schilling]

#13238: Franco Saliola: add functionality for counting, generating, and manipulating non-negative integer matrices [Reviewed by Chris Berg]

#13243: Franco Saliola, Nicolas M. Thiéry, Florent Hivert, Chris Berg: new methods for compositions [Reviewed by Chris Berg, Mike Zabrocki]

#13265: Alexander Dreyer: Missing attributes of `'pbori.pyx'`'s `'BooleConstant'` [Reviewed by Martin Albrecht]

Merged in sage-5.3.beta1:

#5512: Mike Hansen: `CombinatorialSpeciesStructures` with different labels are equal [Reviewed by Laurent Pierron, Guy Achard]

#11310: Jeroen Demeyer, Volker Braun: Monkey-patch `catchall` `'except:'` statements so they at least don't catch `'KeyboardInterrupt'` errors [Reviewed by Keshav Kini]

#12251: Mark Shimozono, Anne Schilling: Implementation of Littelmann path model for crystals [Reviewed by Anne Schilling, Mark Shimozono]

#12454: Timo Jolivet: A `draw_rauzy_fractal` method for `WordMorphism` [Reviewed by Vincent Delecroix, Sébastien Labbé]

#12549: Julian Rueth: `p-adic` `is_zero` doesn't normalize at the beginning [Reviewed by David Roe]

#12811: Daniel Smertnig: (reduced) norm of quaternion ideals is broken [Reviewed by Aly Deines]

#12861: Daniel Smertnig: `maximal_order` of quaternion algebras should be

more general [Reviewed by Aly Deines]

#12924: Viviane Pons: SchubertPolynomialRing causes symmetrica and Sage to crash on bad input [Reviewed by Mike Hansen]

#13067: Nathann Cohen: is\_strongly\_regular [Reviewed by Frédéric Chapoton]

#13160: François Bissey: upgrade cvxopt to 1.1.5 [Reviewed by Volker Braun]

#13192: Birk Eisermann: some code clean up for sage/graphs/graph.py [Reviewed by Nathann Cohen, Karl-Dieter Crisman]

#13202: Alexander Dreyer, Charles Bouillaguet: conversion problems in BooleanPolynomialRing with degrevlex order [Reviewed by Martin Albrecht, Charles Bouillaguet]

#13242: Jeremy Martin, Lauren Keough: Determine if an edge in a graph is a cut-edge (bridge) [Reviewed by David Coudert]

#13293: Julian Rueth: Change add\_big\_oh to add\_bigoh in padic factorization code [Reviewed by David Roe]

#13310: John Palmieri: `:trac:` links are broken [Reviewed by Punarbasu Purkayastha]

#13315: Jeroen Demeyer: Clean up MANIFEST.in, spkg-delauto and spkg-dist [Reviewed by John Palmieri]

#13328: Volker Braun: Remove wrong and outdated SELinux advice from installation guide. [Reviewed by Mike Hansen]

#13329: Jeroen Demeyer, Volker Braun: Add OpenSSL prereq check [Reviewed by Volker Braun, Jeroen Demeyer]

#13330: Jean-Pierre Flori: flint-1.5.2.p0.spkg installation fails on Cygwin [Reviewed by Dmitrii Pasechnik]

#13334: Jean-Pierre Flori: ecl.pyx won't build on Cygwin [Reviewed by Dmitrii Pasechnik]

#13335: Jean-Pierre Flori: matrix\_\*.pyx do not compile on Cygwin [Reviewed by Dmitrii Pasechnik]

#13336: Jean-Pierre Flori: farey\_symbol.pyx fails to build on Cygwin [Reviewed by Dmitrii Pasechnik]

#13337: Jean-Pierre Flori: expression.pyx fails to build on Cygwin [Reviewed by Dmitrii Pasechnik]

#13338: Jean-Pierre Flori: stl\_vector.pyx fails on Cygwin [Reviewed by Volker Braun]

Merged in sage-5.3.beta2:

#6538: Travis Scrimshaw: bug in Partitions [Reviewed by Benjamin Jones]

#7956: Michael Orlitzky: constructing a scheme morphism to an affine curve [Reviewed by Marco Streng]

#10512: Jason Grout, Punarbasu Purkayastha, Sébastien Labbé: wrap matplotlib's title functionality [Reviewed by Sébastien Labbé, Punarbasu Purkayastha]

#11143: Benjamin Jones, Volker Braun: define symbolic functions for exponential integrals [Reviewed by Burcin Erocal, Karl-Dieter Crisman, William Stein]

#11455: Marco Streng: Add algorithm Magma to Conic methods [Reviewed by Florian Bouyer]

#12181: Douglas McNeil, Frédéric Chapoton: random\_DAG does not terminate on it's default inputs [Reviewed by David Coudert]

#12310: Ivan Andrus: Don't specify a port number in sage-notebook [Reviewed by John Palmieri]

#12346: Jeroen Demeyer: Re-enable Pari hermite form with flag=4 and include\_zero\_rows=False once it is fixed upstream [Reviewed by Volker Braun]

#12380: Sébastien Labbé: Move methods from Word\_nfactor\_enumerable to FiniteWord\_class [Reviewed by André Aplitzsch]

#12990: Simon King, Luis Felipe Tabera Alonso: Add another doctest to connecting conversion maps [Reviewed by Keshav Kini, Marco Streng]

#13061: Michael Orlitzky: Add a symbolic expression interface to Maxima's `rectform()` [Reviewed by Timo Kluck]  
 #13114: Nathann Cohen: Bug in `is_isomorphic` for multigraphs ! [Reviewed by David Coudert]  
 #13132: David Coudert: Small string formatting bug in `Graph.delete_vertex` [Reviewed by Timo Jolivet]  
 #13189: Volker Braun: fan isomorphism check [Reviewed by Andrey Novoseltsev]  
 #13271: Karl-Dieter Crisman: wrong sign with function `Ei` and limit [Reviewed by Benjamin Jones]  
 #13286: Punarbasu Purkayastha: inconsistent behaviour of `solve` [Reviewed by Frédéric Chapoton]  
 #13287: Leif Leonhardy: Override more compiler-related environment variables if Sage's GCC is used [Reviewed by Jeroen Demeyer]  
 #13290: Jeroen Demeyer: Upgrade MPC to version 1.0 [Reviewed by Leif Leonhardy, Volker Braun]  
 #13308: Daniel Smertnig: `eigenspaces_left()` sometimes raises an error concerning variable names [Reviewed by Maarten Derickx]  
 #13320: Jeroen Demeyer: Upgrade to PARI-2.5.2 [Reviewed by Marco Streng]  
 #13353: Jeroen Demeyer: In `sage-spkg`, export `SAGE_KEEP_BUILT_SPKGS` [Reviewed by John Palmieri]  
 #13359: Timo Kluck: [Performance] `Expression::__nonzero__` shouldn't call `variables()` unless it is necessary [Reviewed by Mike Hansen]  
 #13363: Mike Hansen: Move `sage/graphs/planarity/` to `sage/graphs/planarity_c/` [Reviewed by John Palmieri]

Merged in sage-5.3.rc0:

#3401: Martin Cross: Make `Li` symbolic and work with complex input [Reviewed by Mike Hansen, Karl-Dieter Crisman, Burcin Erocal, Benjamin Jones]  
 #10742: Marco Streng: Local solubility of conics over number fields [Reviewed by Florian Bouyer]  
 #11425: Travis Scrimshaw: `to_standard` modifies the original permutation [Reviewed by Mike Hansen]  
 #13161: Dan Drake, 王瑞期: Fix unicode issue in axes labels [Reviewed by Sébastien Labbé]  
 #13251: Kevin Halasz: Add General Dihedral Groups as Permutation Groups [Reviewed by Benjamin Jones]  
 #13260: Karl-Dieter Crisman: Add tutorials from PREP workshops to standard documentation [Reviewed by André Aplitzsch, Andrey Novoseltsev, John Palmieri, Benjamin Jones]  
 #13339: Jean-Pierre Flori: `wrapper_*.pyx` fail to build on Cygwin [Reviewed by Dmitrii Pasechnik]  
 #13349: Jeroen Demeyer: Deprecate `SAGE_FORTRAN`, support FC [Reviewed by Leif Leonhardy, John Palmieri]  
 #13373: Leif Leonhardy, Jeroen Demeyer: Make `sage -i http://.../foo.spkg` work immediately [Reviewed by John Palmieri]

Merged in sage-5.3.rc1:

#12324: Jeroen Demeyer: Fix upgrading of root repository [Reviewed by John Palmieri]  
 #12486: Robert Bradshaw, Dan Drake: Make the Sage patchbot an optional spkg [Reviewed by Volker Braun]  
 #13341: Jean-Pierre Flori, Leif Leonhardy: GAP's `spkg-install` fails on recent Cygwin [Reviewed by Dmitrii Pasechnik]  
 #13392: Keshav Kini: Remove GNUTLS-related packages [Reviewed by John Palmieri]

#13402: Dmitrii Pasechnik: a bug in matching() [Reviewed by David Coudert]

#13421: Jeroen Demeyer: polynomial\_real\_mpfr\_dense.pyx: remove signal handling around list(x) [Reviewed by Volker Braun]

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