
Sage Reference Manual: References

Release 8.0

The Sage Development Team

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BIBLIOGRAPHY

- [ABBR2012] A. Abad, R. Barrio, F. Blesa, M. Rodriguez. Algorithm 924. *ACM Transactions on Mathematical Software*, 39 no. 1 (2012), 1-28.
- [ADKF1970] V. Arlazarov, E. Dinic, M. Kronrod, and I. Faradzev. ‘On Economical Construction of the Transitive Closure of a Directed Graph.’ Dokl. Akad. Nauk. SSSR No. 194 (in Russian), English Translation in Soviet Math Dokl. No. 11, 1970.
- [AH2002] R. J. Aumann and S. Hart, Elsevier, eds. *Computing equilibria for two-person games*. <http://www.maths.lse.ac.uk/personal/stengel/TEXTE/nashsurvey.pdf> (2002)
- [AHK2015] Karim Adiprasito, June Huh, and Eric Katz. *Hodge theory for combinatorial geometries*. Arxiv 1511.02888.
- [AHU1974] A. Aho, J. Hopcroft, and J. Ullman. ‘Chapter 6: Matrix Multiplication and Related Operations.’ The Design and Analysis of Computer Algorithms. Addison-Wesley, 1974.
- [Aj1996] M. Ajtai. Generating hard instances of lattice problems (extended abstract). STOC, pp. 99–108, ACM, 1996.
- [AJL2011] Susumu Ariki, Nicolas Jacon, and Cedric Lecouvey. *The modular branching rule for affine Hecke algebras of type A*. Adv. Math. 228:481-526 (2011).
- [AI1947] A. A. Albert, *A Structure Theory for Jordan Algebras*. Annals of Mathematics, Second Series, Vol. 48, No. 3 (Jul., 1947), pp. 546–567.
- [AL1978] A. O. L. Atkin and Wen-Ch’ing Winnie Li, Twists of newforms and pseudo-eigenvalues of W -operators. Inventiones math. 48 (1978), 221-243.
- [AL2015] M. Aguiar and A. Lauve, *The characteristic polynomial of the Adams operators on graded connected Hopf algebras*. Algebra Number Theory, v.9, 2015, n.3, 2015.
- [AM1974] J. F. Adams and H. R. Margolis, “Sub-Hopf-algebras of the Steenrod algebra,” Proc. Cambridge Philos. Soc. 76 (1974), 45-52.
- [Ap1997] T. Apostol, Modular functions and Dirichlet series in number theory, Springer, 1997 (2nd ed), section 3.7–3.9.
- [APR2001] George E. Andrews, Peter Paule, Axel Riese, *MacMahon’s partition analysis: the Omega package*, European J. Combin. 22 (2001), no. 7, 887–904.
- [Ar2006] D. Armstrong. *Generalized noncrossing partitions and combinatorics of Coxeter groups*. Mem. Amer. Math. Soc., 2006.
- [AR2012] D. Armstrong and B. Rhoades. “The Shi arrangement and the Ish arrangement”. Transactions of the American Mathematical Society 364 (2012), 1509-1528. Arxiv 1009.1655
- [AS-Bessel] F. W. J. Olver: 9. Bessel Functions of Integer Order, in Abramowitz and Stegun: Handbook of Mathematical Functions. http://people.math.sfu.ca/~cbm/aands/page_355.htm

- [AS-Spherical] H. A. Antosiewicz: 10. Bessel Functions of Fractional Order, in Abramowitz and Stegun: Handbook of Mathematical Functions. http://people.math.sfu.ca/~cbm/aands/page_435.htm
- [AS-Struve] M. Abramowitz: 12. Struve Functions and Related Functions, in Abramowitz and Stegun: Handbook of Mathematical Functions. http://people.math.sfu.ca/~cbm/aands/page_495.htm
- [AS1964] M. Abramowitz and I. A. Stegun, *Handbook of Mathematical Functions*, National Bureau of Standards Applied Mathematics Series, 55. 1964. See also <http://www.math.sfu.ca/~cbm/aands/>.
- [As2008] Sami Assaf. *A combinatorial realization of Schur-Weyl duality via crystal graphs and dual equivalence graphs*. FPSAC 2008, 141-152, Discrete Math. Theor. Comput. Sci. Proc., AJ, Assoc. Discrete Math. Theor. Comput. Sci., (2008). Arxiv 0804.1587v1
- [AS2011] R.B.J.T Allenby and A. Slomson, “How to count”, CRC Press (2011)
- [ASD1971] A. O. L. Atkin and H. P. F. Swinnerton-Dyer, “Modular forms on noncongruence subgroups”, Proc. Symp. Pure Math., Combinatorics (T. S. Motzkin, ed.), vol. 19, AMS, Providence 1971
- [Av2000] D. Avis, *A revised implementation of the reverse search vertex enumeration algorithm*. Polytopes-combinatorics and computation. Birkhauser Basel, 2000.
- [Ba1994] Kaushik Basu. *The Traveler’s Dilemma: Paradoxes of Rationality in Game Theory*. The American Economic Review (1994): 391-395.
- [Bar1970] Barnette, “Diagrams and Schlegel diagrams”, in Combinatorial Structures and Their Applications, Proc. Calgary Internat. Conference 1969, New York, 1970, Gordon and Breach.
- [Bar2006] G. Bard. ‘Accelerating Cryptanalysis with the Method of Four Russians’. Cryptography E-Print Archive (<http://eprint.iacr.org/2006/251.pdf>), 2006.
- [BB1997] Mladen Bestvina and Noel Brady. *Morse theory and finiteness properties of groups*. Invent. Math. **129** (1997). No. 3, 445-470. www.math.ou.edu/~nbrady/papers/morse.ps.
- [BB2009] Tomas J. Boothby and Robert W. Bradshaw. *Bitslicing and the Method of Four Russians Over Larger Finite Fields*. arXiv:0901.1413v1, 2009. Arxiv 0901.1413
- [BBLSW1999] Babson, Bjorner, Linusson, Shareshian, and Welker, “Complexes of not i-connected graphs,” Topology 38 (1999), 271-299
- [BBS1982] L. Blum, M. Blum, and M. Shub. Comparison of Two Pseudo-Random Number Generators. *Advances in Cryptology: Proceedings of Crypto ’82*, pp.61–78, 1982.
- [BBS1986] L. Blum, M. Blum, and M. Shub. A Simple Unpredictable Pseudo-Random Number Generator. *SIAM Journal on Computing*, 15(2):364–383, 1986.
- [BC1977] R. E. Bixby, W. H. Cunningham, Matroids, Graphs, and 3-Connectivity. In Graph theory and related topics (Proc. Conf., Univ. Waterloo, Waterloo, ON, 1977), 91-103
- [BC2003] A. Biryukov and C. D. Canniere *Block Ciphers and Systems of Quadratic Equations*; in Proceedings of Fast Software Encryption 2003; LNCS 2887; pp. 274-289, Springer-Verlag 2003.
- [BC2012] Mohamed Barakat and Michael Cuntz. “Coxeter and crystallographic arrangements are inductively free.” Adv. in Math. **229** Issue 1 (2012). pp. 691-709. doi:10.1016/j.aim.2011.09.011, Arxiv 1011.4228.
- [BCCCNSY2010] Charles Bouillaguet, Hsieh-Chung Chen, Chen-Mou Cheng, Tung Chou, Ruben Niederhagen, Adi Shamir, and Bo-Yin Yang. *Fast exhaustive search for polynomial systems in GF(2)*. In Stefan Mangard and François-Xavier Standaert, editors, CHES, volume 6225 of Lecture Notes in Computer Science, pages 203–218. Springer, 2010. pre-print available at <http://eprint.iacr.org/2010/313.pdf>
- [BDP2013] Thomas Brüstle, Grégoire Dupont, Matthieu Pérotin *On Maximal Green Sequences* Arxiv 1205.2050
- [Bee] Robert A. Beezer, *A First Course in Linear Algebra*, <http://linear.ups.edu/>. Accessed 15 July 2010.

- [Ber2008] W. Bertram : *Differential Geometry, Lie Groups and Symmetric Spaces over General Base Fields and Rings*, Memoirs of the American Mathematical Society, vol. 192 (2008); doi:10.1090/memo/0900; Arxiv math/0502168
- [Ber1991] C. Berger, “Une version effective du théorème de Hurewicz”, <https://tel.archives-ouvertes.fr/tel-00339314/en/>.
- [BFZ2005] A. Berenstein, S. Fomin, and A. Zelevinsky, *Cluster algebras. III. Upper bounds and double Bruhat cells*, Duke Math. J. 126 (2005), no. 1, 1–52.
- [BG1985] M. Blum and S. Goldwasser. An Efficient Probabilistic Public-Key Encryption Scheme Which Hides All Partial Information. In *Proceedings of CRYPTO 84 on Advances in Cryptology*, pp. 289–299, Springer, 1985.
- [BG1988] M. Berger & B. Gostiaux : *Differential Geometry: Manifolds, Curves and Surfaces*, Springer (New York) (1988); doi:10.1007/978-1-4612-1033-7
- [BH1994] S. Billey, M. Haiman. *Schubert polynomials for the classical groups*. J. Amer. Math. Soc., 1994.
- [BHS2008] Robert Bradshaw, David Harvey and William Stein. strassen_window_multiply_c. strassen.pyx, Sage 3.0, 2008. <http://www.sagemath.org>
- [Big1999] Stephen J. Bigelow. The Burau representation is not faithful for $n = 5$. Geom. Topol., 3:397–404, 1999.
- [Big2003] Stephen J. Bigelow, The Lawrence-Krammer representation, Geometric Topology, 2001 Georgia International Topology Conference, AMS/IP Studies in Advanced Mathematics 35 (2003). Arxiv math/0204057v1
- [Bir1975] J. Birman. *Braids, Links, and Mapping Class Groups*, Princeton University Press, 1975
- [BK1992] U. Brehm and W. Kuhnel, “15-vertex triangulations of an 8-manifold”, Math. Annalen 294 (1992), no. 1, 167–193.
- [BK2001] W. Bruns and R. Koch, Computing the integral closure of an affine semigroup. Uni. Iagellonicae Acta Math. 39, (2001), 59-70
- [BL2000] Anders Björner and Frank H. Lutz, “Simplicial manifolds, bistellar flips and a 16-vertex triangulation of the Poincaré homology 3-sphere”, Experiment. Math. 9 (2000), no. 2, 275–289.
- [BL2008] Corentin Boissy and Erwan Lanneau, “Dynamics and geometry of the Rauzy-Veech induction for quadratic differentials” (arxiv:0710.5614) to appear in Ergodic Theory and Dynamical Systems.
- [BM1940] Becker, M. F., and Saunders MacLane. The minimum number of generators for inseparable algebraic extensions. Bulletin of the American Mathematical Society 46, no. 2 (1940): 182-186.
- [BM2008] John Adrian Bondy and U.S.R. Murty, “Graph theory”, Volume 244 of Graduate Texts in Mathematics, 2nd edition, Springer, 2008.
- [BM2003] Bazzi and Mitter, {it Some constructions of codes from group actions}, (preprint March 2003, available on Mitter’s MIT website).
- [BN2008] Victor V. Batyrev and Benjamin Nill. Combinatorial aspects of mirror symmetry. In *Integer points in polyhedra — geometry, number theory, representation theory, algebra, optimization, statistics*, volume 452 of *Contemp. Math.*, pages 35–66. Amer. Math. Soc., Providence, RI, 2008. arXiv:math/0703456v2 [math.CO].
- [Bob2013] J.W. Bober. Conditionally bounding analytic ranks of elliptic curves. ANTS 10, 2013. <http://msp.org/obs/2013/1-1/obs-v1-n1-p07-s.pdf>
- [Bo2009] Bosch, S., Algebra, Springer 2009
- [BP1982] H. Beker and F. Piper. *Cipher Systems: The Protection of Communications*. John Wiley and Sons, 1982.
- [BP2000] V. M. Bukhshtaber and T. E. Panov, “Moment-angle complexes and combinatorics of simplicial manifolds,” *Uspekhi Mat. Nauk* 55 (2000), 171–172.
- [BP2015] P. Butera and M. Pernici “Sums of permanental minors using Grassmann algebra”, International Journal of Graph Theory and its Applications, 1 (2015), 83–96. Arxiv 1406.5337

- [BPRS2009] J. Bastian, T. Prellberg, M. Rubey, C. Stump, *Counting the number of elements in the mutation classes of ‘tilde{A}_n‘-quivers*, Arxiv 0906.0487
- [Br1910] Bruckner, “Über die Ableitung der allgemeinen Polytope und die nach Isomorphismus verschiedenen Typen der allgemeinen Achtzelle (Oktatope)”, Verhand. Konik. Akad. Wetenschap, Erste Sectie, 10 (1910)
- [Br2000] Kenneth S. Brown, *Semigroups, rings, and Markov chains*, Arxiv math/0006145v1.
- [BS1996] Eric Bach, Jeffrey Shallit. *Algorithmic Number Theory, Vol. 1: Efficient Algorithms*. MIT Press, 1996. ISBN 978-0262024051.
- [BS2003] I. Bouyukliev and J. Simonis, Some new results on optimal codes over F_5 , Designs, Codes and Cryptography 30, no. 1 (2003): 97-111, http://www.moi.math.bas.bg/moiuser/~iliya/pdf_site/gf5srev.pdf.
- [BS2011] E. Byrne and A. Sneyd, On the Parameters of Codes with Two Homogeneous Weights. WCC 2011-Workshop on coding and cryptography, pp. 81-90. 2011. <https://hal.inria.fr/inria-00607341/document>
- [BSS2009] David Bremner, Mathieu Dutour Sikiric, Achill Schuermann: Polyhedral representation conversion up to symmetries, Proceedings of the 2006 CRM workshop on polyhedral computation, AMS/CRM Lecture Notes, 48 (2009), 45-71. <http://arxiv.org/abs/math/0702239>
- [BSV2010] M. Bolt, S. Snoeyink, E. Van Andel. “Visual representation of the Riemann map and Ahlfors map via the Kerzman-Stein equation”. Involve 3-4 (2010), 405-420.
- [BW1996] Anders Bjorner and Michelle L. Wachs. *Shellable nonpure complexes and posets. I*. Trans. of Amer. Math. Soc. **348** No. 4. (1996)
- [BZ01] A. Berenstein, A. Zelevinsky *Tensor product multiplicities, canonical bases and totally positive varieties* Invent. Math. **143** No. 1. (2002), 77-128.
- [CB2007] Nicolas Courtois, Gregory V. Bard: Algebraic Cryptanalysis of the Data Encryption Standard, In 11-th IMA Conference, Cirencester, UK, 18-20 December 2007, Springer LNCS 4887. See also <http://eprint.iacr.org/2006/402/>.
- [CDL2015] A. Canteaut, Sebastien Duval, Gaetan Leurent *Construction of Lightweight S-Boxes using Feistel and MISTY Structures*; in Proceedings of SAC 2015; LNCS 9566; pp. 373-393; Springer-Verlag 2015; available at <http://eprint.iacr.org/2015/711.pdf>
- [CE2001] Raul Cordovil and Gwihen Etienne. *A note on the Orlik-Solomon algebra*. Europ. J. Combinatorics. **22** (2001). pp. 165-170. <http://www.math.ist.utl.pt/~rcordov/Ce.pdf>
- [Cer1994] D. P. Cervone, “Vertex-minimal simplicial immersions of the Klein bottle in three-space”, Geom. Ded. 50 (1994) 117-141, <http://www.math.union.edu/~dpvc/papers/1993-03.kb/vmkb.pdf>.
- [CEW2011] Georgios Chalkiadakis, Edith Elkind, and Michael Wooldridge. *Computational Aspects of Cooperative Game Theory*. Morgan & Claypool Publishers, (2011). ISBN 9781608456529, doi:10.2200/S00355ED1V01Y201107AIM016.
- [CGW2013] Daniel Cabarcas, Florian Göpfert, and Patrick Weiden. Provably Secure LWE-Encryption with Uniform Secret. Cryptology ePrint Archive, Report 2013/164. 2013. 2013/164. <http://eprint.iacr.org/2013/164>
- [CGMRV16] A. Conte, R. Grossi, A. Marino, R. Rizzi, L. Versari, “Directing Road Networks by Listing Strong Orientations.”, Combinatorial Algorithms, Proceedings of 27th International Workshop, IWOCA 2016, August 17-19, 2016, pages 83–95.
- [Ch2012] Cho-Ho Chu. *Jordan Structures in Geometry and Analysis*. Cambridge University Press, New York. 2012. ISBN 978-1-107-01617-0.
- [Cha92] Chameni-Nembua C. and Monjardet B. *Les Treillis Pseudocomplémentés Finis* Europ. J. Combinatorics (1992) 13, 89-107.
- [Cha2006] Ruth Charney. *An introduction to right-angled Artin groups*. <http://people.brandeis.edu/~charney/papers/RAAGfinal.pdf>, Arxiv math/0610668.

- [ChenDB] Eric Chen, Online database of two-weight codes, <http://moodle.tec.hkr.se/~chen/research/2-weight-codes/search.php>
- [CK1999] David A. Cox and Sheldon Katz. *Mirror symmetry and algebraic geometry*, volume 68 of *Mathematical Surveys and Monographs*. American Mathematical Society, Providence, RI, 1999.
- [CK2001] M. Casella and W. Kühnel, “A triangulated K3 surface with the minimum number of vertices”, *Topology* 40 (2001), 753–772.
- [CKS1999] Felipe Cucker, Pascal Koiran, and Stephen Smale. *A polynomial-time algorithm for diophantine equations in one variable*, *J. Symbolic Computation* 27 (1), 21–29, 1999.
- [CK2015] J. Campbell and V. Knight. *On testing degeneracy of bi-matrix games*. http://vknight.org/unpeudemath/code/2015/06/25/on_testing_degeneracy_of_games/ (2015)
- [CL2013] Maria Chlouveraki and Sofia Lambropoulou. *The Yokonuma-Hecke algebras and the HOMFLYPT polynomial*. (2015) [Arxiv 1204.1871v4](#).
- [CLRS2001] Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein, *Section 22.4: Topological sort*, Introduction to Algorithms (2nd ed.), MIT Press and McGraw-Hill, 2001, 549–552, ISBN 0-262-03293-7.
- [CLS2011] David A. Cox, John Little, and Hal Schenck. *Toric Varieties*. Volume 124 of *Graduate Studies in Mathematics*. American Mathematical Society, Providence, RI, 2011.
- [CMO2011] C. Chun, D. Mayhew, J. Oxley, A chain theorem for internally 4-connected binary matroids. *J. Combin. Theory Ser. B* 101 (2011), 141–189.
- [CMO2012] C. Chun, D. Mayhew, J. Oxley, Towards a splitter theorem for internally 4-connected binary matroids. *J. Combin. Theory Ser. B* 102 (2012), 688–700.
- [CMR2005] C. Cid, S. Murphy, M. Robshaw *Small Scale Variants of the AES*; in Proceedings of Fast Software Encryption 2005; LNCS 3557; Springer Verlag 2005; available at <http://www.isg.rhul.ac.uk/~sean/smallAES-fse05.pdf>
- [CMR2006] C. Cid, S. Murphy, and M. Robshaw *Algebraic Aspects of the Advanced Encryption Standard*; Springer Verlag 2006
- [CMT2003] A. M. Cohen, S. H. Murray, D. E. Talyor. *Computing in groups of Lie type*. *Mathematics of Computation*. 73 (2003), no 247. pp. 1477–1498. <http://www.win.tue.nl/~amc/pub/papers/cmt.pdf>
- [Co1984] J. Conway, Hexacode and tetracode - MINIMOG and MOG. *Computational group theory*, ed. M. Atkinson, Academic Press, 1984.
- [Coh1993] Henri Cohen. *A Course in Computational Number Theory*. Graduate Texts in Mathematics 138. Springer, 1993.
- [Coh2007] Henri Cohen, *Number Theory, Volume II*. Graduate Texts in Mathematics 240. Springer, 2007.
- [Col2013] Julia Collins. *An algorithm for computing the Seifert matrix of a link from a braid representation*. (2013). <http://www.maths.ed.ac.uk/~jcollins/SeifertMatrix/SeifertMatrix.pdf>
- [Con] Keith Conrad, Groups of order 12, <http://www.math.uconn.edu/~kconrad/blurbs/grouptheory/group12.pdf>, accessed 21 October 2009.
- [CP2001] John Crisp and Luis Paris. *The solution to a conjecture of Tits on the subgroup generated by the squares of the generators of an Artin group*. *Invent. Math.* 145 (2001). No 1, 19–36. [Arxiv math/0003133](#).
- [CPdA2014] Maria Chlouveraki and Loic Poulain d’Andecy. *Representation theory of the Yokonuma-Hecke algebra*. (2014) [Arxiv 1302.6225v2](#).
- [CR1962] Curtis, Charles W.; Reiner, Irving “Representation theory of finite groups and associative algebras.” Pure and Applied Mathematics, Vol. XI Interscience Publishers, a division of John Wiley & Sons, New York-London 1962, pp 545–547

- [Cre1997] J. E. Cremona, *Algorithms for Modular Elliptic Curves*. Cambridge University Press, 1997.
- [Cre2003] Cressman, Ross. *Evolutionary dynamics and extensive form games*. MIT Press, 2003.
- [Crossproduct] Algebraic Properties of the Cross Product Wikipedia article [Cross_product](#)
- [CS1986] J. Conway and N. Sloane. *Lexicographic codes: error-correcting codes from game theory*, IEEE Trans. Infor. Theory **32** (1986) 337-348.
- [Cu1984] R. Curtis, The Steiner system $S(5, 6, 12)$, the Mathieu group M_{12} , and the kitten. *Computational group theory*, ed. M. Atkinson, Academic Press, 1984.
- [Cun1986] W. H. Cunningham, Improved Bounds for Matroid Partition and Intersection Algorithms. SIAM Journal on Computing 1986 **15**:4, 948-957
- [Dat2007] Basudeb Datta, “Minimal triangulations of manifolds”, J. Indian Inst. Sci. 87 (2007), no. 4, 429-449.
- [Dav1997] B.A. Davey, H.A. Priestley, *Introduction to Lattices and Order*, Cambridge University Press, 1997.
- [Dec1998] W. Decker and T. de Jong. Groebner Bases and Invariant Theory in Groebner Bases and Applications. London Mathematical Society Lecture Note Series No. 251. (1998) 61–89.
- [DDLL2013] Léo Ducas, Alain Durmus, Tancrède Lepoint and Vadim Lyubashevsky. *Lattice Signatures and Bimodal Gaussians*; in Advances in Cryptology – CRYPTO 2013; Lecture Notes in Computer Science Volume 8042, 2013, pp 40-56 <http://www.di.ens.fr/~lyubash/papers/bimodal.pdf>
- [De1973] P. Delsarte, An algebraic approach to the association schemes of coding theory, Philips Res. Rep., Suppl., vol. 10, 1973.
- [De1974] M. Demazure, Desingularisation des variétés de Schubert, Ann. E. N. S., Vol. 6, (1974), p. 163-172
- [Deh2011] P. Dehornoy, Le problème d’isotopie des tresses, in *Leçons mathématiques de Bordeaux*, vol. 4, pages 259-300, Cassini (2011).
- [deG2000] Willem A. de Graaf. *Lie Algebras: Theory and Algorithms*. North-Holland Mathematical Library. (2000). Elsevier Science B.V.
- [Deo1987a] V. Deodhar, A splitting criterion for the Bruhat orderings on Coxeter groups. Comm. Algebra, 15:1889-1894, 1987.
- [Deo1987b] V.V. Deodhar, On some geometric aspects of Bruhat orderings II. The parabolic analogue of Kazhdan-Lusztig polynomials, J. Alg. 111 (1987) 483-506.
- [DGRB2010] David Avis, Gabriel D. Rosenberg, Rahul Savani, Bernhard von Stengel. *Enumeration of Nash equilibria for two-player games*. <http://www.maths.lse.ac.uk/personal/stengel/ETissue/ARSvS.pdf> (2010)
- [DHSW2003] Dumas, Heckenbach, Saunders, Welker, “Computing simplicial homology based on efficient Smith normal form algorithms,” in “Algebra, geometry, and software systems” (2003), 177-206.
- [DI1989] Dan Gusfield and Robert W. Irving. *The stable marriage problem: structure and algorithms*. Vol. 54. Cambridge: MIT press, 1989.
- [DI1995] F. Diamond and J. Im, Modular forms and modular curves. In: V. Kumar Murty (ed.), Seminar on Fermat’s Last Theorem (Toronto, 1993-1994), 39-133. CMS Conference Proceedings 17. American Mathematical Society, 1995.
- [Di2000] L. Dissett, Combinatorial and computational aspects of finite geometries, 2000, <https://tspace.library.utoronto.ca/bitstream/1807/14575/1/NQ49844.pdf>
- [DLHK2007] J. A. De Loera, D. C. Haws, M. Köppe, Ehrhart polynomials of matroid polytopes and polymatroids. Discrete & Computational Geometry, Volume 42, Issue 4. Arxiv 0710.4346, doi:10.1007/s00454-008-9120-8
- [DLMF-Bessel] F. W. J. Olver and L. C. Maximon: 10. Bessel Functions, in NIST Digital Library of Mathematical Functions. <http://dlmf.nist.gov/10>

- [DLMF-Error] N. M. Temme: 7. Error Functions, Dawson's and Fresnel Integrals, in NIST Digital Library of Mathematical Functions. <http://dlmf.nist.gov/7>
- [DLMF-Struve] R. B. Paris: 11. Struve and Related Functions, in NIST Digital Library of Mathematical Functions. <http://dlmf.nist.gov/11>
- [DLRS2010] De Loera, Rambau and Santos, “Triangulations: Structures for Algorithms and Applications”, Algorithms and Computation in Mathematics, Volume 25, Springer, 2011.
- [DN1990] Claude Danthony and Arnaldo Nogueira “Measured foliations on nonorientable surfaces”, Annales scientifiques de l'Ecole Normale Supérieure, Ser. 4, 23, no. 3 (1990) p 469-494
- [Do2009] P. Dobcsanyi et al. DesignTheory.org. <http://designtheory.org/database/>
- [DP2008] Jean-Guillaume Dumas and Clement Pernet. Memory efficient scheduling of Strassen-Winograd's matrix multiplication algorithm. arXiv:0707.2347v1, 2008.
- [DR2002] Joan Daemen, Vincent Rijmen. The Design of Rijndael. Springer-Verlag Berlin Heidelberg, 2002.
- [Dro1987] Carl Droms. *Isomorphisms of graph groups*. Proc. of the Amer. Math. Soc. **100** (1987). No 3. <http://educ.jmu.edu/~dromscg/vita/preprints/Isomorphisms.pdf>
- [Du2003] I. Duursma, “Extremal weight enumerators and ultraspherical polynomials”, Discrete Mathematics 268 (2003), 103–127.
- [Du2009] Du Ye. *On the Complexity of Deciding Degeneracy in Games*. <http://arxiv.org/pdf/0905.3012v1.pdf> (2009)
- [DW1995] Andreas W.M. Dress and Walter Wenzel, *A Simple Proof of an Identity Concerning Pfaffians of Skew Symmetric Matrices*, Advances in Mathematics, volume 112, Issue 1, April 1995, pp. 120-134. <http://www.sciencedirect.com/science/article/pii/S0001870885710298>
- [DW2007] I. Dynnikov and B. Wiest, On the complexity of braids, J. Europ. Math. Soc. 9 (2007)
- [Eb1989] W. Eberly, “Computations for algebras and group representations”. Ph.D. Thesis, University of Toronto, 1989. <http://www.cpsc.ucalgary.ca/~eberly/Research/Papers/phdthesis.pdf>
- [Ed1974] A. R. Edmonds, ‘Angular Momentum in Quantum Mechanics’, Princeton University Press (1974)
- [Eh2013] Ehrhardt, Wolfgang. “The AMath and DAMath Special Functions: Reference Manual and Implementation Notes, Version 1.3”. 2013. <http://www.wolfgang-ehrhardt.de/specialfunctions.pdf>
- [EM2001] Pavel Etingof and Xiaoguang Ma. *Lecture notes on Cherednik algebras*. <http://www-math.mit.edu/~etingof/73509.pdf> Arxiv 1001.0432.
- [EP2013] David Einstein, James Propp. *Combinatorial, piecewise-linear, and birational homomesy for products of two chains*. Arxiv 1310.5294v1.
- [EP2013b] David Einstein, James Propp. *Piecewise-linear and birational toggling*. Extended abstract for FPSAC 2014. <http://faculty.uml.edu/jpropp/fpsac14.pdf>
- [ERH2015] Jorge Espanola and Steen Ryom-Hansen. *Cell structures for the Yokonuma-Hecke algebra and the algebra of braids and ties*. (2015) Arxiv 1506.00715.
- [Ewa1996] Ewald, “Combinatorial Convexity and Algebraic Geometry”, vol. 168 of Graduate Texts in Mathematics, Springer, 1996
- [EZ1950] S. Eilenberg and J. Zilber, “Semi-Simplicial Complexes and Singular Homology”, Ann. Math. (2) 51 (1950), 499-513.
- [Fe1997] Stefan Felsner, “On the Number of Arrangements of Pseudolines”, Proceedings SoCG 96, 30-37. Discrete & Computational Geometry 18 (1997), 257-267. <http://page.math.tu-berlin.de/~felsner/Paper/numarr.pdf>
- [Fe2012] Hans L. Fetter, “A Polyhedron Full of Surprises”, Mathematics Magazine 85 (2012), no. 5, 334-342.

- [Feu2009] T. Feulner. The Automorphism Groups of Linear Codes and Canonical Representatives of Their Semilinear Isometry Classes. *Advances in Mathematics of Communications* 3 (4), pp. 363-383, Nov 2009
- [Feu2013] Feulner, Thomas, “Eine kanonische Form zur Darstellung aequivalenter Codes – Computergestuetzte Berechnung und ihre Anwendung in der Codierungstheorie, Kryptographie und Geometrie”, Dissertation, University of Bayreuth, 2013.
- [FM2014] Cameron Franc and Marc Masdeu, “Computing fundamental domains for the Bruhat-Tits tree for $GL_2(Q_p)$, p-adic automorphic forms, and the canonical embedding of Shimura curves”. *LMS Journal of Computation and Mathematics* (2014), volume 17, issue 01, pp. 1-23.
- [FOS2010] G. Fourier, M. Okado, A. Schilling. *Perfectness of Kirillov-Reshetikhin crystals for nonexceptional types*. *Contemp. Math.* 506 (2010) 127-143 ([Arxiv 0811.1604](#))
- [FP1996] Komei Fukuda, Alain Prodon: Double Description Method Revisited, *Combinatorics and Computer Science*, volume 1120 of Lecture Notes in Computer Science, page 91-111. Springer (1996)
- [FR1985] Friedl, Katalin, and Lajos Rónyai. “Polynomial time solutions of some problems of computational algebra”. Proceedings of the seventeenth annual ACM symposium on Theory of computing. ACM, 1985.
- [FRT1990] Faddeev, Reshetikhin and Takhtajan. *Quantization of Lie Groups and Lie Algebras*. Leningrad Math. J. vol. **1** (1990), no. 1.
- [FST2012] A. Felikson, M. Shapiro, and P. Tumarkin, *Cluster Algebras of Finite Mutation Type Via Unfoldings*, *Int Math Res Notices* (2012) 2012 (8): 1768-1804.
- [Fu1993] William Fulton, *Introduction to Toric Varieties*, Princeton University Press, 1993.
- [FY2004] Eva Maria Feichtner and Sergey Yuzvinsky. *Chow rings of toric varieties defined by atomic lattices*. *Inventiones Mathematicae*. **155** (2004), no. 3, pp. 515-536.
- [FZ2007] S. Fomin and A. Zelevinsky, *Cluster algebras IV. Coefficients*, *Compos. Math.* 143 (2007), no. 1, 112-164.
- [Ga02] Shuhong Gao, A new algorithm for decoding Reed-Solomon Codes, January 31, 2002
- [Gambit] Richard D. McKelvey, Andrew M. McLennan, and Theodore L. Turocy, *Gambit: Software Tools for Game Theory, Version 13.1.2..* <http://www.gambit-project.org> (2014).
- [GDR1999] R. González-Díaz and P. Réal, *A combinatorial method for computing Steenrod squares* in *J. Pure Appl. Algebra* 139 (1999), 89-108.
- [GDR2003] R. González-Díaz and P. Réal, *Computation of cohomology operations on finite simplicial complexes* in *Homology, Homotopy and Applications* 5 (2003), 83-93.
- [GG2012] Jim Geelen and Bert Gerards, Characterizing graphic matroids by a system of linear equations, submitted, 2012. Preprint: http://www.gerardsbase.nl/papers/geelen_gerards=testing-graphicness%5B2013%5D.pdf
- [GGD2011] E. Girondo, G. Gonzalez-Diez, *Introduction to Compact Riemann surfaces and Dessins d'enfant*, (2011) London Mathematical Society, Student Text 79.
- [GGOR2003] V. Ginzberg, N. Guay, E. Opdam, R. Rouquier. *On the category ‘mathcal{O}’ for rational Cherednik algebras*. *Invent. Math.* **154** (2003). [Arxiv math/0212036](#).
- [GHJV1994] E. Gamma, R. Helm, R. Johnson, J. Vlissides, *Design Patterns: Elements of Reusable Object-Oriented Software*. Addison-Wesley (1994). ISBN 0-201-63361-2.
- [GK2013] Roland Grinis and Alexander Kasprzyk, Normal forms of convex lattice polytopes, arXiv:1301.6641
- [GKZ1994] Gelfand, I. M.; Kapranov, M. M.; and Zelevinsky, A. V. “Discriminants, Resultants and Multidimensional Determinants” Birkhauser 1994
- [GL1996] G. Golub and C. van Loan. *Matrix Computations*. 3rd edition, Johns Hopkins Univ. Press, 1996.
- [GM2002] Daniel Goldstein and Andrew Mayer. On the equidistribution of Hecke points. *Forum Mathematicum*, 15:2, pp. 165–189, De Gruyter, 2003.

- [Go1967] Solomon Golomb, Shift register sequences, Aegean Park Press, Laguna Hills, Ca, 1967
- [God1968] R. Godement: *Algebra*, Hermann (Paris) / Houghton Mifflin (Boston) (1968)
- [Gor1980] Daniel Gorenstein, Finite Groups (New York: Chelsea Publishing, 1980)
- [Gor2009] Alexey G. Gorinov, “Combinatorics of double cosets and fundamental domains for the subgroups of the modular group”, preprint Arxiv 0901.1340
- [GPV2008] Craig Gentry, Chris Peikert, Vinod Vaikuntanathan. *How to Use a Short Basis: Trapdoors for Hard Lattices and New Cryptographic Constructions*. STOC 2008. http://www.cc.gatech.edu/~cpeikert/pubs/trap_lattice.pdf
- [GR2001] C.Godsil and G.Royle, *Algebraic Graph Theory*. Graduate Texts in Mathematics, Springer, 2001.
- [Gr2007] J. Green, Polynomial representations of GL_n , Springer Verlag, 2007.
- [GR2013] Darij Grinberg, Tom Roby. *Iterative properties of birational rowmotion I*. <http://web.mit.edu/~darij/www/algebra/skeletal.pdf>
- [GrS1967] Grunbaum and Sreedharan, “An enumeration of simplicial 4-polytopes with 8 vertices”, J. Comb. Th. 2, 437-465 (1967)
- [GS1999] Venkatesan Guruswami and Madhu Sudan, Improved Decoding of Reed-Solomon Codes and Algebraic-Geometric Codes, 1999
- [GT1996] P. Gianni and B. Trager. “Square-free algorithms in positive characteristic”. Applicable Algebra in Engineering, Communication and Computing, 7(1), 1-14 (1996)
- [GT2014] M.S. Gowda and J. Tao. On the bilinearity rank of a proper cone and Lyapunov-like transformations. Mathematical Programming, 147 (2014) 155-170.
- [Gu] GUAVA manual, <http://www.gap-system.org/Packages/guava.html>
- [GZ1983] Greene; Zaslavsky, “On the Interpretation of Whitney Numbers Through Arrangements of Hyperplanes, Zonotopes, Non-Radon Partitions, and Orientations of Graphs”. Transactions of the American Mathematical Society, Vol. 280, No. 1. (Nov., 1983), pp. 97-126.
- [Ha2005] Gerhard Haring. [Online] Available: <http://osdir.com/ml/python.db.pysqlite.user/2005-11/msg00047.html>
- [Hac2016] 13. Hachimori. http://infoshako.sk.tsukuba.ac.jp/~hachi/math/library/dunce_hat_eng.html
- [Hat2002] Allen Hatcher, “Algebraic Topology”, Cambridge University Press (2002).
- [He2002] H. Heys *A Tutorial on Linear and Differential Cryptanalysis* ; 2002’ available at http://www.enr.mun.ca/~howard/PAPERS/lde_tutorial.pdf
- [Hes2002] F. Hess, “Computing Riemann-Roch spaces in algebraic function fields and related topics,” J. Symbolic Comput. 33 (2002), no. 4, 425–445.
- [Hig2008] N. J. Higham, “Functions of matrices: theory and computation”, Society for Industrial and Applied Mathematics (2008).
- [HJ2004] Tom Høholdt and Joern Justesen, A Course In Error-Correcting Codes, EMS, 2004
- [HKOTY1999] G. Hatayama, A. Kuniba, M. Okado, T. Tagaki, and Y. Yamada, *Remarks on fermionic formula*. Contemp. Math., **248** (1999).
- [HPK2010] T. J. Haines, R. E. Kottwitz, A. Prasad, Iwahori-Hecke Algebras, J. Ramanujan Math. Soc., 25 (2010), 113–145. Arxiv 0309168v3 MathSciNet MR2642451
- [HL2014] Thomas Hamilton and David Loeffler, “Congruence testing for odd modular subgroups”, LMS J. Comput. Math. 17 (2014), no. 1, 206-208, doi:10.1112/S1461157013000338.
- [Hli2006] Petr Hlineny, “Equivalence-free exhaustive generation of matroid representations”, Discrete Applied Mathematics 154 (2006), pp. 1210-1222.

- [HLY2002] Yi Hu, Chien-Hao Liu, and Shing-Tung Yau. Toric morphisms and fibrations of toric Calabi-Yau hypersurfaces. *Adv. Theor. Math. Phys.*, 6(3):457–506, 2002. arXiv:math/0010082v2 [math.AG].
- [Hoc] Winfried Hochstaettler, “About the Tic-Tac-Toe Matroid”, preprint.
- [HP2003] W. C. Huffman, V. Pless, *Fundamentals of Error-Correcting Codes*, Cambridge Univ. Press, 2003.
- [HP2016] S. Hopkins, D. Perkinson. “Bigraphical Arrangements”. *Transactions of the American Mathematical Society* 368 (2016), 709-725. Arxiv 1212.4398
- [HPS2008] J. Hoffstein, J. Pipher, and J.H. Silverman. *An Introduction to Mathematical Cryptography*. Springer, 2008.
- [HOLM2016] Tristan Holmes and J. B. Nation, *Inflation of finite lattices along all-or-nothing sets*. <http://www.math.hawaii.edu/~jb/inflation.pdf>
- [HR2016] Clemens Heuberger and Roswitha Rissner, “Computing J -Ideals of a Matrix Over a Principal Ideal Domain”, Arxiv 1611.10308, 2016.
- [HRT2000] R.B. Howlett, L.J. Rylands, and D.E. Taylor. *Matrix generators for exceptional groups of Lie type*. J. Symbolic Computation. **11** (2000). <http://www.maths.usyd.edu.au/u/bobh/hrt.pdf>
- [Hsu1996] Tim Hsu, “Identifying congruence subgroups of the modular group”, Proc. AMS 124, no. 5, 1351-1359 (1996)
- [Hsu1997] Tim Hsu, “Permutation techniques for coset representations of modular subgroups”, in L. Schneps (ed.), *Geometric Galois Actions II: Dessins d’Enfants, Mapping Class Groups and Moduli*, volume 243 of LMS Lect. Notes, 67-77, Cambridge Univ. Press (1997)
- [Huy2005] D. Huybrechts : *Complex Geometry*, Springer (Berlin) (2005).
- [IR1990] K. Ireland and M. Rosen, *A Classical Introduction to Modern Number Theory*, Springer-Verlag, GTM volume 84, 1990.
- [Iwa1964] N. Iwahori, On the structure of a Hecke ring of a Chevalley group over a finite field, *J. Fac. Sci. Univ. Tokyo Sect. I*, 10 (1964), 215–236 (1964). MathSciNet MR0165016
- [Iwa1972] K. Iwasawa, *Lectures on p -adic L -functions*, Princeton University Press, 1972.
- [Ja1971] N. Jacobson. *Exceptional Lie Algebras*. Marcel Dekker, Inc. New York, 1971. ISBN No. 0-8247-1326-5.
- [JL2009] Nicolas Jacon and Cedric Lecouvey. *Kashiwara and Zelevinsky involutions in affine type A*. *Pac. J. Math.* 243(2):287-311 (2009).
- [Joh1990] D.L. Johnson. *Presentations of Groups*. Cambridge University Press. (1990).
- [Jon1987] V. Jones, Hecke algebra representations of braid groups and link polynomials. *Ann. of Math.* (2) 126 (1987), no. 2, 335–388. doi:10.2307/1971403 MathSciNet MR0908150
- [Jon2005] V. Jones, The Jones Polynomial, 2005. <https://math.berkeley.edu/~vfr/jones.pdf>
- [Joy2004] D. Joyner, Toric codes over finite fields, *Applicable Algebra in Engineering, Communication and Computing*, 15, (2004), p. 63-79.
- [Joy2006] D. Joyner, *On quadratic residue codes and hyperelliptic curves*, (preprint 2006)
- [JPdA15] N. Jacon and L. Poulain d’Andecy. *An isomorphism theorem for Yokonuma-Hecke algebras and applications to link invariants*. (2015) Arxiv 1501.06389v3.
- [Ka1990] Victor G. Kac. *Infinite-dimensional Lie Algebras*. Third edition. Cambridge University Press, Cambridge, 1990.
- [Ka1993] Masaki Kashiwara, The crystal base and Littelmann’s refined Demazure character formula, *Duke Math. J.* 71 (1993), no. 3, 839–858.
- [Kal1980] T. Kaliath, “Linear Systems”, Prentice-Hall, 1980, 383–386.

- [Kam2007] Joel Kamnitzer, *The crystal structure on the set of Mirković-Vilonen polytopes*, Adv. Math. **215** (2007), 66-93.
- [Kam2010] Joel Kamnitzer, *Mirković-Vilonen cycles and polytopes*, Ann. Math. (2) **171** (2010), 731-777.
- [Kan1958] D. M. Kan, *A combinatorial definition of homotopy groups*, Ann. Math. (2) **67** (1958), 282-312.
- [KB1983] W. Kühnel and T. F. Banchoff, “The 9-vertex complex projective plane”, Math. Intelligencer **5** (1983), no. 3, 11-22.
- [Ke1991] A. Kerber. Algebraic combinatorics via finite group actions, 2.2 p. 70. BI-Wissenschaftsverlag, Mannheim, 1991.
- [Ke2008] B. Keller, *Cluster algebras, quiver representations and triangulated categories*, Arxiv 0807.1960.
- [KK1995] Victor Klee and Peter Kleinschmidt, *Convex polytopes and related complexes.*, in R. L. Graham, M. Grötschel, L Lovász, *Handbook of combinatorics*, Vol. 1, Chapter 18, 1995
- [KMMNN1992] S-J. Kang, M. Kashiwara, K. C. Misra, T. Miwa, T. Nakashima, and A. Nakayashiki. *Affine crystals and vertex models*. Int. J. Mod. Phys. A, **7** (suppl. 1A), (1992) pp. 449-484.
- [KL2008] Chris Kurth and Ling Long, “Computations with finite index subgroups of $PSL_2(\mathbb{Z})$ using Farey symbols”, Advances in algebra and combinatorics, 225–242, World Sci. Publ., Hackensack, NJ, 2008. Preprint version: Arxiv 0710.1835
- [KLS2013] Allen Knutson, Thomas Lam, and David Speyer. *Positroid Varieties: Juggling and Geometry* Compositio Mathematica, **149** (2013), no. 10. Arxiv 1111.3660.
- [KMM2004] Tomasz Kaczynski, Konstantin Mischaikow, and Marian Mrozek, “Computational Homology”, Springer-Verlag (2004).
- [KMN2012] On the trace of the antipode and higher indicators. Yevgenia Kashina and Susan Montgomery and Richard Ng. Israel J. Math., v.188, 2012.
- [KN1963] S. Kobayashi & K. Nomizu : *Foundations of Differential Geometry*, vol. 1, Interscience Publishers (New York) (1963).
- [KNS2011] Atsuo Kuniba and Tomoki Nakanishi and Junji Suzuki, *T-systems and Y-systems in integrable systems*. J. Phys. A, **44** (2011), no. 10.
- [KnotAtlas] The Knot atlas. http://katlas.org/wiki/Main_Page
- [Knu1995] Donald E. Knuth, *Overlapping Pfaffians*, Arxiv math/9503234v1.
- [Kob1993] Neal Koblitz, *Introduction to Elliptic Curves and Modular Forms*. Springer GTM 97, 1993.
- [Koe1999] Wolfram Koepf: Efficient Computation of Chebyshev Polynomials in Computer Algebra Systems: A Practical Guide. John Wiley, Chichester (1999): 79-99.
- [Koh2000] David Kohel, *Hecke Module Structure of Quaternions*, in Class Field Theory — Its Centenary and Prospect (Tokyo, 1998), Advanced Studies in Pure Mathematics, 30, 177-196, 2000.
- [Koh2007] A. Kohnert, Constructing two-weight codes with prescribed groups of automorphisms, Discrete applied mathematics 155, no. 11 (2007): 1451-1457. <http://linearcodes.uni-bayreuth.de/twoweight/>
- [KP2002] Volker Kaibel and Marc E. Pfetsch, “Computing the Face Lattice of a Polytope from its Vertex-Facet Incidences”, Computational Geometry: Theory and Applications, Volume 23, Issue 3 (November 2002), 281-290. Available at <http://portal.acm.org/citation.cfm?id=763203> and free of charge at <http://arxiv.org/abs/math/0106043>
- [Kr1971] D. Kraines, “On excess in the Milnor basis,” Bull. London Math. Soc. 3 (1971), 363-365.
- [Kr2016] Stefan Kranich, An epsilon-delta bound for plane algebraic curves and its use for certified homotopy continuation of systems of plane algebraic curves, arXiv:1505.03432

- [KR2001] J. Kahane and A. Ryba. *The hexad game*, Electronic Journal of Combinatorics, **8** (2001). http://www.combinatorics.org/Volume_8/Abstracts/v8i2r11.html
- [KS1998] Maximilian Kreuzer and Harald Skarke, Classification of Reflexive Polyhedra in Three Dimensions, arXiv:hep-th/9805190
- [KS2002] A. Khare and U. Sukhatme. “Cyclic Identities Involving Jacobi Elliptic Functions”, preprint 2002. Arxiv math-ph/0201004
- [KSV2011] Ian Kiming, Matthias Schuett and Helena Verrill, “Lifts of projective congruence groups”, J. London Math. Soc. (2011) 83 (1): 96-120, doi:10.1112/jlms/jdq062. Arxiv version: Arxiv 0905.4798.
- [KT1986] N. Kerzman and M. R. Trummer. “Numerical Conformal Mapping via the Szego kernel”. Journal of Computational and Applied Mathematics, 14(1-2): 111–123, 1986.
- [Kuh1987] W. Kühnel, “Minimal triangulations of Kummer varieties”, Abh. Math. Sem. Univ. Hamburg 57 (1987), 7-20.
- [Kuh1995] Kühnel, “Tight Polyhedral Submanifolds and Tight Triangulations” Lecture Notes in Mathematics Volume 1612, 1995
- [Kul1991] Ravi Kulkarni, “An arithmetic geometric method in the study of the subgroups of the modular group”, American Journal of Mathematics 113 (1991), no 6, 1053-1133
- [Kur2008] Chris Kurth, “K Farey package for Sage”, <http://wayback.archive-it.org/855/20100510123900/http://www.public.iastate.edu/~kurthc/research/index.html>
- [KZ2003] M. Kontsevich, A. Zorich “Connected components of the moduli space of Abelian differentials with prescriped singularities” Invent. math. 153, 631-678 (2003)
- [Lam2005] T. Lam, Affine Stanley symmetric functions, Amer. J. Math. 128 (2006), no. 6, 1553–1586.
- [Lam2008] T. Lam. *Schubert polynomials for the affine Grassmannian*. J. Amer. Math. Soc., 2008.
- [Lan2008] E. Lanneau ‘Connected components of the strata of the moduli spaces of quadratic differentials”, Annales sci. de l’ENS, serie 4, fascicule 1, 41, 1-56 (2008)
- [Lau2011] Alan G.B. Lauder, “Computations with classical and p-adic modular forms”, LMS J. of Comput. Math. 14 (2011), 214-231.
- [LdB1982] A. Liberato de Brito, ‘FORTRAN program for the integral of three spherical harmonics’, Comput. Phys. Commun., Volume 25, pp. 81-85 (1982)
- [Lee1997] J. M. Lee, *Riemannian Manifolds*, Springer (New York) (1997); doi:10.1007/b98852
- [Lee2011] J. M. Lee, *Introduction to Topological Manifolds*, 2nd ed., Springer (New York) (2011); doi:10.1007/978-1-4419-7940-7
- [Lee2013] J. M. Lee, *Introduction to Smooth Manifolds*, 2nd ed., Springer (New York) (2013); doi:10.1007/978-1-4419-9982-5
- [Lev2014] Lionel Levine. Threshold state and a conjecture of Poghosyan, Poghosyan, Priezzhev and Ruelle, Communications in Mathematical Physics.
- [Lew2000] Robert Edward Lewand. *Cryptological Mathematics*. The Mathematical Association of America, 2000.
- [Li1995] Peter Littelmann, Crystal graphs and Young tableaux, J. Algebra 175 (1995), no. 1, 65–87.
- [Lic1997] William B. Raymond Lickorish. An Introduction to Knot Theory, volume 175 of Graduate Texts in Mathematics. Springer-Verlag, New York, 1997. ISBN 0-387-98254-X
- [Lin1999] J. van Lint, Introduction to coding theory, 3rd ed., Springer-Verlag GTM, 86, 1999.
- [LLZ2014] K. Lee, L. Li, and A. Zelevinsky, *Greedy elements in rank 2 cluster algebras*, Selecta Math. 20 (2014), 57-82.

- [LM2006] Vadim Lyubashevsky and Daniele Micciancio. Generalized compact knapsacks are collision resistant. ICALP, pp. 144–155, Springer, 2006.
- [LMR2010] N. Linial, R. Meshulam and M. Rosenthal, “Sum complexes – a new family of hypertrees”, Discrete & Computational Geometry, 2010, Volume 44, Number 3, Pages 622-636
- [Lod1995] Jean-Louis Loday. *Cup-product for Leibniz cohomology and dual Leibniz algebras*. Math. Scand., pp. 189–196 (1995). http://www.math.uiuc.edu/K-theory/0015/cup_product.pdf
- [Loe2007] David Loeffler, *Spectral expansions of overconvergent modular functions*, Int. Math. Res. Not 2007 (050). Arxiv preprint.
- [LP2011] Richard Lindner and Chris Peikert. Better key sizes (and attacks) for LWE-based encryption. in Proceeding of the 11th international conference on Topics in cryptology: CT-RSA 2011. Springer 2011, doi:10.1007/978-3-642-19074-2_21
- [LPR2010] Vadim Lyubashevsky, Chris Peikert, and Oded Regev. On Ideal Lattices and Learning with Errors over Rings. in Advances in Cryptology – EUROCRYPT 2010. Springer 2010. doi:10.1007/978-3-642-13190-5_1
- [LSS2009] T. Lam, A. Schilling, M. Shimozono. *Schubert polynomials for the affine Grassmannian of the symplectic group*. Mathematische Zeitschrift 264(4) (2010) 765-811 (Arxiv 0710.2720)
- [LT1998] B. Leclerc, J.-Y. Thibon, Littlewood-Richardson coefficients and Kazhdan-Lusztig polynomials, <http://front.math.ucdavis.edu/9809.5122>
- [LT2009] G.I. Lehrer and D.E. Taylor. *Unitary reflection groups*. Australian Mathematical Society Lecture Series, 2009.
- [Lut2002] Frank H. Lutz, Császár’s Torus, Electronic Geometry Model No. 2001.02.069 (2002). http://www.eg-models.de/models/Classical_Models/2001.02.069/_direct_link.html
- [Lut2005] Frank H. Lutz, “Triangulated Manifolds with Few Vertices: Combinatorial Manifolds”, preprint (2005), Arxiv math/0506372
- [LV2012] Jean-Louis Loday and Bruno Vallette. *Algebraic Operads*. Springer-Verlag Berlin Heidelberg (2012). doi:10.1007/978-3-642-30362-3.
- [LTV1999] Bernard Leclerc, Jean-Yves Thibon, and Eric Vasserot. *Zelevinsky’s involution at roots of unity*. J. Reine Angew. Math. 513:33-51 (1999).
- [LW2012] David Loeffler and Jared Weinstein, *On the computation of local components of a newform*, Mathematics of Computation **81** (2012) 1179-1200. doi:10.1090/S0025-5718-2011-02530-5
- [Ly02003] R. Lyons, Determinantal probability measures. Publications Mathématiques de l’Institut des Hautes Études Scientifiques 98(1) (2003), pp. 167-212.
- [Mat2002] Jiří Matousek, “Lectures on Discrete Geometry”, Springer, 2002
- [Ma2009] Sarah Mason, An Explicit Construction of Type A Demazure Atoms, Journal of Algebraic Combinatorics, Vol. 29, (2009), No. 3, p.295-313. Arxiv 0707.4267
- [Mac1915] Percy A. MacMahon, *Combinatory Analysis*, Cambridge University Press (1915–1916). (Reprinted: Chelsea, New York, 1960).
- [MAR2009] H. Molina-Abril and P. Réal, *Homology computation using spanning trees* in Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications, Lecture Notes in Computer Science, volume 5856, pp 272-278, Springer, Berlin (2009).
- [Mas1969] James L. Massey, “Shift-Register Synthesis and BCH Decoding.” IEEE Trans. on Information Theory, vol. 15(1), pp. 122-127, Jan 1969.
- [May1964] J. P. May, “The cohomology of restricted Lie algebras and of Hopf algebras; application to the Steenrod algebra.” Thesis, Princeton Univ., 1964.

- [May1967] J. P. May, Simplicial Objects in Algebraic Topology, University of Chicago Press (1967)
- [McC1978] K. McCrimmon. *Jordan algebras and their applications*. Bull. Amer. Math. Soc. **84** 1978.
- [McM1992] John McMillan. *Games, strategies, and managers*. Oxford University Press.
- [Mil1958] J. W. Milnor, “The Steenrod algebra and its dual,” Ann. of Math. (2) 67 (1958), 150-171.
- [MMY2003] Jean-Christophe Yoccoz, Stefano Marmi and Pierre Moussa “On the cohomological equation for interval exchange maps”, C. R. Acad. Sci. Paris, projet de Note, 2003 Systèmes dynamiques/Dynamical Systems. [Arxiv math/0304469v1](https://arxiv.org/abs/math/0304469v1)
- [MM2015] J. Matherne and G. Muller, *Computing upper cluster algebras*, Int. Math. Res. Not. IMRN, 2015, 3121-3149.
- [MNO1994] Alexander Molev, Maxim Nazarov, and Grigori Olshanski. *Yangians and classical Lie algebras*. (1994) [Arxiv hep-th/9409025](https://arxiv.org/abs/hep-th/9409025)
- [Mol2007] Alexander Ivanovich Molev. *Yangians and Classical Lie Algebras*. Mathematical Surveys and Monographs. Providence, RI: American Mathematical Society. (2007)
- [Mon1998] K. G. Monks, “Change of basis, monomial relations, and P_t^s bases for the Steenrod algebra,” J. Pure Appl. Algebra 125 (1998), no. 1-3, 235-260.
- [MR1989] G. Melançon and C. Reutenauer. *Lyndon words, free algebras and shuffles*, Can. J. Math., Vol. XLI, No. 4, 1989, pp. 577-591.
- [MR2002] S. Murphy, M. Robshaw *Essential Algebraic Structure Within the AES*; in Advances in Cryptology - CRYPTO 2002; LNCS 2442; Springer Verlag 2002
- [MS2003] T. Mulders, A. Storjohann, “On lattice reduction for polynomial matrices”, J. Symbolic Comput. 35 (2003), no. 4, 377–401
- [MS2011] G. Musiker and C. Stump, *A compendium on the cluster algebra and quiver package in sage*, [Arxiv 1102.4844](https://arxiv.org/abs/1102.4844).
- [MSZ2013] Michael Maschler, Solan Eilon, and Zamir Shmuel. *Game Theory*. Cambridge: Cambridge University Press, (2013). ISBN 9781107005488.
- [MV2010] D. Micciancio, P. Voulgaris. *A Deterministic Single Exponential Time Algorithm for Most Lattice Problems based on Voronoi Cell Computations*. Proceedings of the 42nd ACM Symposium Theory of Computation, 2010.
- [MvOV1996] A. J. Menezes, P. C. van Oorschot, and S. A. Vanstone. *Handbook of Applied Cryptography*. CRC Press, 1996.
- [MW2009] Meshulam and Wallach, “Homological connectivity of random k -dimensional complexes”, preprint, [math.CO/0609773](https://arxiv.org/abs/math/0609773).
- [Nas1950] John Nash. *Equilibrium points in n-person games*. Proceedings of the National Academy of Sciences 36.1 (1950): 48-49.
- [Nie2013] Johan S. R. Nielsen, List Decoding of Algebraic Codes, Ph.D. Thesis, Technical University of Denmark, 2013
- [Nie] Johan S. R. Nielsen, Codinglib, <https://bitbucket.org/jsrn/codinglib/>.
- [NN2007] Nisan, Noam, et al., eds. *Algorithmic game theory*. Cambridge University Press, 2007.
- [Nog1985] Arnaldo Nogueira, “Almost all Interval Exchange Transformations with Flips are Nonergodic” (Ergod. Th. & Dyn. Systems, Vol 5., (1985), 257-271
- [Normaliz] Winfried Bruns, Bogdan Ichim, and Christof Soeger, Normaliz, <http://www.mathematik.uni-osnabrueck.de/normaliz/>

- [NZ2012] T. Nakanishi and A. Zelevinsky, *On tropical dualities in cluster algebras*, Algebraic groups and quantum groups, Contemp. Math., vol. 565, Amer. Math. Soc., Providence, RI, 2012, pp. 217-226.
- [Oha2011] R.A. Ohana. On Prime Counting in Abelian Number Fields. http://wstein.org/home/ohanar/papers/abelian_prime_counting/main.pdf.
- [ONe1983] B. O'Neill : *Semi-Riemannian Geometry*, Academic Press (San Diego) (1983)
- [Or2016] M. Orlitzky. The Lyapunov rank of an improper cone. Citation: Optimization Methods and Software (accepted 2016-06-12). http://www.optimization-online.org/DB_HTML/2015/10/5135.html. doi:10.1080/10556788.2016.1202246
- [Oxl1992] James Oxley, *Matroid theory*, Oxford University Press, 1992.
- [Oxl2011] James Oxley, *Matroid Theory, Second Edition*. Oxford University Press, 2011.
- [PALP] Maximilian Kreuzer, Harald Skarke: “PALP: A Package for Analyzing Lattice Polytopes with Applications to Toric Geometry” *Comput.Phys.Commun.* 157 (2004) 87-106 [Arxiv math/0204356](https://arxiv.org/abs/math/0204356)
- [PearsonTest] Wikipedia article [Goodness_of_fit](#), accessed 13th October 2009.
- [Pen2012] R. Pendavingh, On the evaluation at $(-i, i)$ of the Tutte polynomial of a binary matroid. Preprint: [Arxiv 1203.0910](https://arxiv.org/abs/1203.0910)
- [Pha2002] R. C.-W. Phan. Mini advanced encryption standard (mini-AES): a testbed for cryptanalysis students. *Cryptologia*, 26(4):283–306, 2002.
- [Piz1980] A. Pizer. An Algorithm for Computing Modular Forms on $\Gamma_0(N)$, *J. Algebra* 64 (1980), 340-390.
- [Pon2010] S. Pon. *Types B and D affine Stanley symmetric functions*, unpublished PhD Thesis, UC Davis, 2010.
- [Pos2005] A. Postnikov, Affine approach to quantum Schubert calculus, *Duke Math. J.* 128 (2005) 473-509
- [PPW2013] Perlman, Perkinson, and Wilmes. Primer for the algebraic geometry of sandpiles. Tropical and Non-Archimedean Geometry, Contemp. Math., 605, Amer. Math. Soc., Providence, RI, 2013.
- [PR2015] P. Pilarczyk and P. Réal, *Computation of cubical homology, cohomology, and (co)homological operations via chain contraction*, *Adv. Comput. Math.* 41 (2015), pp 253–275.
- [PRESENT07] A. Bogdanov, L. Knudsen, G. Leander, C. Paar, A. Poschmann, M. Robshaw, Y. Seurin, C. Vinkelsoe *PRESENT: An Ultra-Lightweight Block Cipher*; in Proceedings of CHES 2007; LNCS 7427; pp. 450-466; Springer Verlag 2007; available at http://www.crypto.rub.de/imperia/md/content/texte/publications/conferences/present_ches2007.pdf
- [Prototype_pattern] Prototype pattern, [Wikipedia article Prototype_pattern](#)
- [PS2011] R. Pollack, and G. Stevens. *Overconvergent modular symbols and p-adic L-functions*. Annales scientifiques de l’Ecole normale supérieure. Vol. 44. No. 1. Elsevier, 2011.
- [PUNTOS] Jesus A. De Loera http://www.math.ucdavis.edu/~deloera/RECENT_WORK/puntos2000
- [PvZ2010] R. A. Pendavingh, S. H. M. van Zwam, Lifts of matroid representations over partial fields, *Journal of Combinatorial Theory, Series B*, Volume 100, Issue 1, January 2010, Pages 36-67
- [PZ2008] J. H. Palmieri and J. J. Zhang, “Commutators in the Steenrod algebra,” *New York J. Math.* 19 (2013), 23-37.
- [Raj1987] A. Rajan, Algorithmic applications of connectivity and related topics in matroid theory. Ph.D. Thesis, Northwestern university, 1987.
- [Rau1979] Gerard Rauzy, “Echanges d’intervalles et transformations induites”, *Acta Arith.* 34, no. 3, 203-212, 1980
- [Red2001] Maria Julia Redondo. *Hochschild cohomology: some methods for computations*. Resenhas IME-USP 5 (2), 113-137 (2001). <http://inmabb.criba.edu.ar/gente/mredondo/crasp.pdfc>
- [Reg09] Oded Regev. On Lattices, Learning with Errors, Random Linear Codes, and Cryptography. in *Journal of the ACM* 56(6). ACM 2009, doi:10.1145/1060590.1060603

- [Reg1958] T. Regge, ‘Symmetry Properties of Clebsch-Gordan Coefficients’, *Nuovo Cimento*, Volume 10, pp. 544 (1958)
- [Reg1959] T. Regge, ‘Symmetry Properties of Racah Coefficients’, *Nuovo Cimento*, Volume 11, pp. 116 (1959)
- [Reg2005] Oded Regev. On lattices, learning with errors, random linear codes, and cryptography. STOC, pp. 84–93, ACM, 2005.
- [Reu1993] C. Reutenauer. *Free Lie Algebras*. Number 7 in London Math. Soc. Monogr. (N.S.). Oxford University Press. (1993).
- [Rho69] John Rhodes, *Characters and complexity of finite semigroups* J. Combinatorial Theory, vol 6, 1969
- [RH2003] J. Rasch and A. C. H. Yu, ‘Efficient Storage Scheme for Pre-calculated Wigner 3j, 6j and Gaunt Coefficients’, SIAM J. Sci. Comput. Volume 25, Issue 4, pp. 1416-1428 (2003)
- [Rio1958] J. Riordan, “An Introduction to Combinatorial Analysis”, Dover Publ. (1958)
- [Ris2016] Roswitha Rissner, “Null ideals of matrices over residue class rings of principal ideal domains”. *Linear Algebra Appl.*, **494** (2016) 44–69. doi:10.1016/j.laa.2016.01.004.
- [RMA2009] P. Réal and H. Molina-Abril, *Cell AT-models for digital volumes* in Torsello, Escolano, Brun (eds.), Graph-Based Representations in Pattern Recognition, Lecture Notes in Computer Science, volume 5534, pp. 314–3232, Springer, Berlin (2009).
- [RNPA2011] G. Rudolf, N. Noyan, D. Papp, and F. Alizadeh. Bilinear optimality constraints for the cone of positive polynomials. *Mathematical Programming*, Series B, 129 (2011) 5-31.
- [Roc1970] R.T. Rockafellar, *Convex Analysis*. Princeton University Press, Princeton, 1970.
- [Rot2001] Gunter Rote, *Division-Free Algorithms for the Determinant and the Pfaffian: Algebraic and Combinatorial Approaches*, H. Alt (Ed.): Computational Discrete Mathematics, LNCS 2122, pp. 119–135, 2001. <http://page.mi.fu-berlin.de/rote/Papers/pdf/Division-free+algorithms.pdf>
- [Rot2006] Ron Roth, *Introduction to Coding Theory*, Cambridge University Press, 2006
- [RSS] Wikipedia article [Residual_sum_of_squares](#), accessed 13th October 2009.
- [Rud1958] M. E. Rudin. *An unshellable triangulation of a tetrahedron*. Bull. Amer. Math. Soc. 64 (1958), 90-91.
- [Sch1996] E. Schaefer. A simplified data encryption algorithm. *Cryptologia*, 20(1):77–84, 1996.
- [Sch2006] Oliver Schiffmann. *Lectures on Hall algebras*, preprint, 2006. Arxiv 0611617v2.
- [SE1962] N. E. Steenrod and D. B. A. Epstein, Cohomology operations, Ann. of Math. Stud. 50 (Princeton University Press, 1962).
- [Ser1992] J.-P. Serre : *Lie Algebras and Lie Groups*, 2nd ed., Springer (Berlin) (1992); doi:10.1007/978-3-540-70634-2
- [Ser2010] F. Sergeraert, *Triangulations of complex projective spaces* in Scientific contributions in honor of Mirian Andrés Gómez, pp 507-519, Univ. La Rioja Serv. Publ., Logroño (2010).
- [SH1995] C. P. Schnorr and H. H. Hörner. *Attacking the Chor-Rivest Cryptosystem by Improved Lattice Reduction*. Advances in Cryptology - EUROCRYPT ‘95. LNCS Volume 921, 1995, pp 1-12.
- [Shr2004] Shreve, S. Stochastic Calculus for Finance II: Continuous-Time Models. New York: Springer, 2004
- [SK2011] J. Spreer and W. Kühnel, “Combinatorial properties of the K3 surface: Simplicial blowups and slicings”, *Experimental Mathematics*, Volume 20, Issue 2, 2011.
- [Sky2003] Brian Skyrms. *The stag hunt and the evolution of social structure*. Cambridge University Press, 2003.
- [SLB2008] Shoham, Yoav, and Kevin Leyton-Brown. *Multiagent systems: Algorithmic, game-theoretic, and logical foundations*. Cambridge University Press, 2008.

- [Spa1966] Edwin H. Spanier, *Algebraic Topology*, Springer-Verlag New York, 1966. doi:10.1007/978-1-4684-9322-1, ISBN 978-1-4684-9322-1.
- [Spe2013] D. Speyer, *An infinitely generated upper cluster algebra*, Arxiv 1305.6867.
- [SS1992] M. A. Shtan'ko and M. I. Shtogrin, “Embedding cubic manifolds and complexes into a cubic lattice”, *Uspekhi Mat. Nauk* 47 (1992), 219-220.
- [SS2015] Anne Schilling and Travis Scrimshaw. *Crystal structure on rigged configurations and the filling map*. Electron. J. Combin., **22(1)** (2015) #P1.73. Arxiv 1409.2920.
- [SS2015II] Ben Salisbury and Travis Scrimshaw. *A rigged configuration model for $B(\infty)$* . J. Combin. Theory Ser. A, **133** (2015) pp. 29-75. Arxiv 1404.6539.
- [SS2017] Ben Salisbury and Travis Scrimshaw. *Rigged configurations for all symmetrizable types*. Electron. J. Combin., **24(1)** (2017) #P1.30. Arxiv 1509.07833.
- [ST2011] A. Schilling, P. Tingley. *Demazure crystals, Kirillov-Reshetikhin crystals, and the energy function*. Electronic Journal of Combinatorics. **19(2)**. 2012. Arxiv 1104.2359
- [Sta2007] Stanley, Richard: *Hyperplane Arrangements*, Geometric Combinatorics (E. Miller, V. Reiner, and B. Sturmfels, eds.), IAS/Park City Mathematics Series, vol. 13, American Mathematical Society, Providence, RI, 2007, pp. 389-496.
- [Ste2003] John R. Stembridge, A local characterization of simply-laced crystals, Transactions of the American Mathematical Society, Vol. 355, No. 12 (Dec., 2003), pp. 4807–4823
- [Sti2006] Douglas R. Stinson. *Cryptography: Theory and Practice*. 3rd edition, Chapman & Hall/CRC, 2006.
- [Sto1998] A. Storjohann, An $O(n^3)$ algorithm for Frobenius normal form. Proceedings of the International Symposium on Symbolic and Algebraic Computation (ISSAC‘98), ACM Press, 1998, pp. 101-104.
- [Sto2000] A. Storjohann, Algorithms for Matrix Canonical Forms. PhD Thesis. Department of Computer Science, Swiss Federal Institute of Technology – ETH, 2000.
- [Sto2011] A. Storjohann, Email Communication. 30 May 2011.
- [Str1969] Volker Strassen. Gaussian elimination is not optimal. Numerische Mathematik, 13:354-356, 1969.
- [Stu1987] J. Sturm, On the congruence of modular forms, Number theory (New York, 1984-1985), Springer, Berlin, 1987, pp. 275-280.
- [Stu1993] B. Sturmfels, Algorithms in invariant theory, Springer-Verlag, 1993.
- [STW2016] C. Stump, H. Thomas, N. Williams. *Cataland II*, in preparation, 2016.
- [sudoku:escargot] “AI Escargot”, due to Arto Inkala, <http://timemaker.blogspot.com/2006/12/ai-escargot-vww.html>
- [sudoku:norvig] Perter Norvig, “Solving Every Sudoku Puzzle”, <http://norvig.com/sudoku.html>
- [sudoku:royle] Gordon Royle, “Minimum Sudoku”, <http://people.csse.uwa.edu.au/gordon/sudokumin.php>
- [sudoku:top95] “95 Hard Puzzles”, <http://magictour.free.fr/top95>, or <http://norvig.com/top95.txt>
- [sudoku:wikipedia] “Near worst case”, Wikipedia article [Algorithmics_of_sudoku](#)
- [SW2002] William Stein and Mark Watkins, *A database of elliptic curves—first report*. In *Algorithmic number theory (ANTS V)*, Sydney, 2002, Lecture Notes in Computer Science 2369, Springer, 2002, p267–275. <http://modular.math.washington.edu/papers/stein-watkins/>
- [Swe1969] Moss Sweedler. Hopf algebras. W.A. Benjamin, Math Lec Note Ser., 1969.
- [SWJ2008] Fatima Shaheen, Michael Wooldridge, and Nicholas Jennings. *A linear approximation method for the Shapley value*. Artificial Intelligence 172.14 (2008): 1673-1699.

- [Tar1976] Robert E. Tarjan, *Edge-disjoint spanning trees and depth-first search*, Acta Informatica 6 (2), 1976, 171-185, doi:10.1007/BF00268499.
- [TB1997] Lloyd N. Trefethen and David Bau III, *Numerical Linear Algebra*, SIAM, Philadelphia, 1997.
- [Tee1997] Tee, Garry J. “Continuous branches of inverses of the 12 Jacobi elliptic functions for real argument”. 1997. <https://researchspace.auckland.ac.nz/bitstream/2292/5042/390.pdf>.
- [TIDES] A. Abad, R. Barrio, F. Blesa, M. Rodriguez. TIDES tutorial: Integrating ODEs by using the Taylor Series Method (<http://www.unizar.es/acz/05Publicaciones/Monografias/MonografiasPublicadas/Monografia36/IndMonogr36.htm>)
- [TOPCOM] J. Rambau, TOPCOM <<http://www.rambau.wm.uni-bayreuth.de/TOPCOM/>>.
- [TW1980] A.D. Thomas and G.V. Wood, Group Tables (Exeter: Shiva Publishing, 1980)
- [UNITTEST] unittest – Unit testing framework – <http://docs.python.org/library/unittest.html>
- [Vat2008] D. Vatne, *The mutation class of ‘D_n’ quivers*, Arxiv 0810.4789v1.
- [VB1996] E. Viterbo, E. Biglieri. *Computing the Voronoi Cell of a Lattice: The Diamond-Cutting Algorithm*. IEEE Transactions on Information Theory, 1996.
- [Vee1978] William Veech, “Interval exchange transformations”, J. Analyse Math. 33 (1978), 222-272
- [Ver] Helena Verrill, “Fundamental domain drawer”, Java program, <http://www.math.lsu.edu/~verrill/>
- [Voe2003] V. Voevodsky, Reduced power operations in motivic cohomology, Publ. Math. Inst. Hautes Études Sci. No. 98 (2003), 1-57.
- [Voi2012] J. Voight. Identifying the matrix ring: algorithms for quaternion algebras and quadratic forms, to appear.
- [VW1994] Leonard Van Wyk. *Graph groups are biautomatic*. J. Pure Appl. Alg. **94** (1994). no. 3, 341-352.
- [Wac2003] Wachs, “Topology of Matching, Chessboard and General Bounded Degree Graph Complexes” (Algebra Universalis Special Issue in Memory of Gian-Carlo Rota, Algebra Universalis, 49 (2003) 345-385)
- [Wal1960] C. T. C. Wall, “Generators and relations for the Steenrod algebra,” Ann. of Math. (2) **72** (1960), 429-444.
- [Wal1970] David W. Walkup, “The lower bound conjecture for 3- and 4-manifolds”, Acta Math. 125 (1970), 75-107.
- [Wan1998] Daqing Wan, “Dimension variation of classical and p-adic modular forms”, Invent. Math. 133, (1998) 449-463.
- [Wan2010] Zhenghan Wang. Topological quantum computation. Providence, RI: American Mathematical Society (AMS), 2010. ISBN 978-0-8218-4930-9
- [Was1997] L. C. Washington, *Cyclotomic Fields*, Springer-Verlag, GTM volume 83, 1997.
- [Wat2003] Joel Watson. *Strategy: an introduction to game theory*. WW Norton, 2002.
- [Wat2010] Watkins, David S. Fundamentals of Matrix Computations, Third Edition. Wiley, Hoboken, New Jersey, 2010.
- [Web2007] James Webb. *Game theory: decisions, interaction and Evolution*. Springer Science & Business Media, 2007.
- [Wei1994] Charles A. Weibel, *An introduction to homological algebra*. Cambridge Studies in Advanced Math., vol. 38, Cambridge Univ. Press, 1994.
- [Woo1998] R. M. W. Wood, “Problems in the Steenrod algebra,” Bull. London Math. Soc. 30 (1998), no. 5, 449-517.
- [WP-Bessel] Wikipedia article [Bessel_function](#)
- [WP-Error] Wikipedia article [Error_function](#)
- [WP-Struve] Wikipedia article [Struve_function](#)

- [XP1994] Deng Xiaotie, and Christos Papadimitriou. *On the complexity of cooperative solution concepts*. Mathematics of Operations Research 19.2 (1994): 257-266.
- [Yoc2005] Jean-Christophe Yoccoz “Echange d’Intervalles”, Cours au college de France
- [Yun1976] Yun, David YY. On square-free decomposition algorithms. In Proceedings of the third ACM symposium on Symbolic and algebraic computation, pp. 26-35. ACM, 1976.
- [Yuz1993] Sergey Yuzvinsky, “The first two obstructions to the freeness of arrangements”, Transactions of the American Mathematical Society, Vol. 335, 1 (1993) pp. 231–244.
- [ZBN1997] C. Zhu, R. H. Byrd and J. Nocedal. L-BFGS-B: Algorithm 778: L-BFGS-B, FORTRAN routines for large scale bound constrained optimization. ACM Transactions on Mathematical Software, Vol 23, Num. 4, pp.550–560, 1997.
- [Zie1998] G. M. Ziegler. *Shelling polyhedral 3-balls and 4-polytopes*. Discrete Comput. Geom. 19 (1998), 159-174.
- [Zie2007] G. M. Ziegler. *Lectures on polytopes*, Volume 152 of Graduate Texts in Mathematics, 7th printing of 1st edition, Springer, 2007.
- [Zor2008] A. Zorich “Explicit Jenkins-Strebel representatives of all strata of Abelian and quadratic differentials”, Journal of Modern Dynamics, vol. 2, no 1, 139-185 (2008) (<http://www.math.psu.edu/jmd>)
- [Zor] Anton Zorich, “Generalized Permutation software” (<http://perso.univ-rennes1.fr/anton.zorich>)
- [ZZ2005] Hechun Zhang and R. B. Zhang. *Dual canonical bases for the quantum special linear group and invariant subalgebras*. Lett. Math. Phys. 73 (2005), pp. 165-181. Arxiv math/0509651.