

AIM Research Papers

1998

Constant mean curvature surfaces with Delaunay ends, Mazzeo, Rafe; Pacard, Frank; Comm. Anal. Geom. 9 (2001), no. 1, 169–237. MR1807955

A conjecture for the sixth power moment of the Riemann zeta-function, Conrey, J. B.; Ghosh, A.; Internat. Math. Res. Notices 1998, no. 15, 775–780. MR1639551

Iwasawa theory for elliptic curves, Greenberg, Ralph; Arithmetic theory of elliptic curves (Cetraro, 1997), 51–144, Lecture Notes in Math., 1716, Springer, Berlin, 1999.

The cubic moment of central values of automorphic L -functions, Conrey, J. B.; Iwaniec, H.; Ann. of Math. (2) 151 (2000), no. 3, 1175–1216. MR1779567

Factoring Hecke polynomials modulo a prime, Conrey, J. B.; Farmer, D. W.; Wallace, P. J.; Pacific J. Math. 196 (2000), no. 1, 123–130. MR1797238

A note on some positivity conditions related to zeta and L -functions, Conrey, J. B.; Li, Xian-Jin; Internat. Math. Res. Notices 2000, no. 18, 929–940. MR1792282

1999

Low lying zeros of families of L -functions, Iwaniec, Henryk; Luo, Wenzhi; Sarnak, Peter; Inst. Hautes Études Sci. Publ. Math. No. 91 (2000), 55–131 (2001). MR1828743

High moments of the Riemann zeta-function, Conrey, J. B.; Gonek, S. M.; Duke Math. J. 107 (2001), no. 3, 577–604. MR1828303

Nonvanishing of quadratic Dirichlet L -functions at $s = \frac{1}{2}$, Soundararajan, K.; Ann. of Math. (2) 152 (2000), no. 2, 447–488. MR1804529

Large character sums, Granville, Andrew; Soundararajan, K.; J. Amer. Math. Soc. 14 (2001), no. 2, 365–397 (electronic).

Transition mean values of real characters, Conrey, J. B.; Farmer, D. W.; Soundararajan, K.; J. Number Theory 82 (2000), no. 1, 109–120. MR1755158

Stability for holomorphic spheres and Morse theory, Cohen, Ralph L.; Jones, John D. S.; Segal, Graeme B.; Geometry and topology: Aarhus (1998), 87–106, Contemp. Math., 258, Amer. Math. Soc., Providence, RI, 2000. MR1778098

Mean values of L -functions and symmetry, Conrey, J. B.; Farmer, D. W.; Internat. Math. Res. Notices 2000, no. 17, 883–908. MR1784410

An Eulerian-Lagrangian approach for incompressible fluids: local theory, Constantin, Peter; J. Amer. Math. Soc. 14 (2001), no. 2, 263–278 (electronic). MR1815212

Zeros of Fekete polynomials, Conrey, J. B.; Granville, A.; Poonen, B.; Soundararajan, K.; Ann. Inst. Fourier (Grenoble) 50 (2000), no. 3, 865–889. MR1779897

On the Iwasawa invariants of elliptic curves, Greenberg, Ralph; Vatsal, Vinayak; Invent. Math. 142 (2000), no. 1, 17–63. MR1784796

On the trace of Hecke operators for Maass forms for congruence subgroups, Conrey, J. Brian; Li, Xian-Jin; Forum Math. 13 (2001), no. 4, 447–484. MR1830242

Connected sums of constant mean curvature surfaces in Euclidean 3 space, Mazzeo, Rafe; Pacard, Frank; Pollack, Daniel; J. Reine Angew. Math. 536 (2001), 115–165. MR1837428

Structures de contact en dimension trois et bifurcations des feuilletages de surfaces, Giroux, Emmanuel; Invent. Math. 141 (2000), no. 3, 615–689. MR1779622

The spectrum of multiplicative functions, Granville, Andrew; Soundararajan, K.; Ann. of Math. (2) 153 (2001), no. 2, 407–470. MR1829755

Algebraic K-theory and trace invariants, Hesselholt, Lars; Proceedings of the International Congress of Mathematicians, Vol. II (Beijing, 2002), 415–425, Higher Ed. Press, Beijing, 2002. MR1957052

M-theory, topological strings and spinning black holes, Katz, Sheldon; Klemm, Albrecht; Vafa, Cumrun; Adv. Theor. Math. Phys. 3 (1999), no. 5, 1445–1537. MR1796683

Decay of mean values of multiplicative functions, Granville, Andrew; Soundararajan, K.; Canad. J. Math. 55 (2003), no. 6, 1191–1230. MR2016245

2000

On the L^2 -instability and L^2 -controllability of steady flows of an ideal incompressible fluid, Shnirelman, Alexander; Journées “Équations aux Dérivées Partielles” (Saint-Jean-de-Monts, 1999), Exp. No. XIII, 8 pp., Univ. Nantes, Nantes, 1999. MR1718998

Beyond pair correlation, Montgomery, H. L.; Soundararajan, K.; Paul Erdős and his mathematics, I (Budapest, 1999), 507–514, Bolyai Soc. Math. Stud., 11, János Bolyai Math. Soc., Budapest, 2002. MR1954710

Navier-Stokes equations and fluid turbulence, Constantin, P.; ICIAM 99 (Edinburgh), 35–46, Oxford Univ. Press, Oxford, 2000.

L-functions and random matrices, Conrey, J. Brian; Mathematics unlimited—2001 and beyond, 331–352, Springer, Berlin, 2001.

Minimizing area among Lagrangian surfaces: the mapping problem, Schoen, R.; Wolfson, J.; J. Differential Geom. 58 (2001), no. 1, 1–86. MR1895348

A variational principle for domino tilings, Cohn, Henry; Kenyon, Richard; Propp, James; J. Amer. Math. Soc. 14 (2001), no. 2, 297–346 (electronic). MR1815214

Rank frequencies for quadratic twists of elliptic curves, Rubin, Karl; Silverberg, Alice; Experiment. Math. 10 (2001), no. 4, 559–569. MR1881757

Tight contact structures with no symplectic fillings, Etnyre, John B.; Honda, Ko; Invent. Math. 148 (2002), no. 3, 609–626. MR1908061

A geometric proof of the existence of Whitney stratifications, Kaloshin, V. Yu.; Mosc. Math. J. 5 (2005), no. 1, 125–133. MR2153470

The existential Hilbert 16-th problem and an estimate for cyclicity of elementary polycycles, Kaloshin, V.; Invent. Math. 151 (2003), no. 3, 451–512. MR1961336

Diophantine properties of elements of $SO(3)$, Kaloshin, V.; Rodnianski, I.; Geom. Funct. Anal. 11 (2001), no. 5, 953–970. MR1873135

A convexity theorem for torus actions on contact manifolds, Lerman, Eugene; Illinois J. Math. 46 (2002), no. 1, 171–184. MR1936083

On the frequency of vanishing of quadratic twists of modular L-functions, Conrey, J. B.; Keating, J. P.; Rubinstein, M. O.; Snaith, N. C.; Number theory for the millennium, I (Urbana, IL, 2000), 301–315, A K Peters, Natick, MA, 2002. MR1956231

Une infinité de structures de contact tendues sur les variétés torodales, Colin, Vincent; Comment. Math. Helv. 76 (2001), no. 2, 353–372. MR1839351

A stretched exponential bound on the rate of growth of the number of periodic points for prevalent diffeomorphisms. II, Kaloshin, Vadim Yu.; Hunt, Brian R.; Electron. Res. Announc. Amer. Math. Soc. 7 (2001), 28–36 (electronic). MR1826993

Introduction to symplectic field theory, Eliashberg, Y.; Givental, A.; Hofer, H.; GAFA 2000 (Tel Aviv, 1999). Geom. Funct. Anal. 2000, Special Volume, Part II, 560–673. MR1826267

2001

An index for closed orbits in Beltrami fields, Etnyre, John; Ghrist, Robert; Phys. D 159 (2001), no. 3–4, 180–189. MR1868524

Invariants of Legendrian knots and coherent orientations, Etnyre, John B.; Ng, Lenhard L.; Sabloff, Joshua M.; J. Symplectic Geom. 1 (2002), no. 2, 321–367. MR1959585

Holonomic approximation and Gromov's h -principle, Eliashberg, Yakov M.; Mishachev, Nikolai M.; Essays on geometry and related topics, Vol. 1, 2, 271–285, Monogr. Enseign. Math., 38, Enseignement Math., Geneva, 2001. MR1929330

Growth of solutions for QG and 2D Euler equations, Cordoba, Diego; Fefferman, Charles; J. Amer. Math. Soc. 15 (2002), no. 3, 665–670 (electronic). MR1896236

Scalars convected by a two-dimensional incompressible flow, Cordoba, Diego; Fefferman, Charles; Comm. Pure Appl. Math. 55 (2002), no. 2, 255–260. MR1865416

On the collapse of tubes carried by 3D incompressible flows, Cordoba, Diego; Fefferman, Charles; Comm. Math. Phys. 222 (2001), no. 2, 293–298. MR1859600

Convex decomposition theory, Honda, Ko; Kazez, William H.; Mati, Gordana; Int. Math. Res. Not. 2002, no. 2, 55–88. MR1874319

On symplectic cobordisms, Etnyre, John B.; Honda, Ko; Math. Ann. 323 (2002), no. 1, 31–39. MR1906906

Symplectic fillability of tight contact structures on torus bundles, Ding, Fan; Geiges, Hansjörg; Algebr. Geom. Topol. 1 (2001), 153–172 (electronic). MR1823497

The splitting of primes in division fields of elliptic curves, Duke, W.; Tóth, .; Experiment. Math. 11 (2002), no. 4, 555–565 (2003). MR1969646

Generating a random sink-free orientation in quadratic time, Cohn, Henry; Pemantle, Robin; Propp, James; Electron J. Combin. 9 (2002), no. 1, Research Paper 10, 13 pp. (electronic). MR1946148

Contact reduction, Willett, Christopher; Trans. Amer. Math. Soc. 354 (2002), no. 10, 4245–4260 (electronic). MR1926873

Upper bounds for $|L(1, \chi)|$, Granville, Andrew; Soundararajan, K.; Q. J. Math. 53 (2002), no. 3, 265–284. MR1930263

On the trace of Hecke operators for Maass forms for congruence subgroups. II, Li, Xian-Jin; Forum Math. 17 (2005), no. 1, 1–30. MR2110536

Computable Legendrian invariants, Ng, Lenhard L.; Topology 42 (2003), no. 1, 55–82. MR1928645

New upper bounds on sphere packings. I, Cohn, Henry; Elkies, Noam; Ann. of Math. (2) 157 (2003), no. 2, 689–714. MR1973059

Elliptic curves with large rank over function fields, Ulmer, Douglas; Ann. of Math. (2) 155 (2002), no. 1, 295–315. MR1888802

Multiple Dirichlet series and moments of zeta and L -functions, Diaconu, Adrian; Goldfeld, Dorian; Hoffstein, Jeffrey; Compositio Math. 139 (2003), no. 3, 297–360. MR2041614

Tight contact structures on fibered hyperbolic 3-manifolds, Honda, Ko; Kazez, William H.; Mati, Gordana; J. Differential Geom. 64 (2003), no. 2, 305–358. MR2029907

On the multiplicativity of quantum cat maps, Mezzadri, Francesco; Nonlinearity 15 (2002), no. 3, 905–922. MR1901113

Sample path properties of the stochastic flows, Dolgopyat, Dmitry; Kaloshin, Vadim; Koralov, Leonid; Ann. Probab. 32 (2004), no. 1A, 1–27. MR2040774

Spacing of zeros of Hecke L -functions and the class number problem, Conrey, B.; Iwaniec, H.; Acta Arith. 103 (2002), no. 3, 259–312. MR1905090

Real zeros of quadratic Dirichlet L -functions, Conrey, J. B.; Soundararajan, K.; Invent. Math. 150 (2002), no. 1, 1–44. MR1930880

Random matrix ensembles associated to compact symmetric spaces, Dueez, Eduardo; Comm. Math. Phys. 244 (2004), no. 1, 29–61.

On the Gabai-Eliashberg-Thurston theorem, Honda, Ko; Kazez, William H.; Mati, Gordana; Comment. Math. Helv. 79 (2004), no. 3, 502–515. MR2081724

Higher correlations of divisor sums related to primes. I. Triple correlations, Goldston, D. A.; Yldrm, C. Y.; Integers 3 (2003), A5, 66 pp. (electronic). MR1985667

2002

Hausdorff dimension in stochastic dispersion, Dolgopyat, D.; Kaloshin, V.; Koralov, L.; J. Statist. Phys. 108 (2002), no. 5-6, 943–971. MR1933440

A limit shape theorem for periodic stochastic dispersion, Dolgopyat, Dmitry; Kaloshin, Vadim; Koralov, Leonid; Comm. Pure Appl. Math. 57 (2004), no. 9, 1127–1158. MR2059676

The distribution of values of $L(1, \chi_d)$, Granville, A.; Soundararajan, K.; Geom. Funct. Anal. 13 (2003), no. 5, 992–1028.

Integral moments of L -functions, Conrey, J. B.; Farmer, D. W.; Keating, J. P.; Rubinstein, M. O.; Snaith, N. C.; Proc. London Math. Soc. (3) 91 (2005), no. 1, 33–104. MR2149530

On the topology of vacuum spacetimes, Isenberg, James; Mazzeo, Rafe; Pollack, Daniel; Ann. Henri Poincaré 4 (2003), no. 2, 369–383. MR1985777

Black hole interaction energy, Dain, Sergio; Phys. Rev. D (3) 66 (2002), no. 8, 084019, 8 pp. MR1944841

Random matrix theory and the zeros of $\zeta'(s)$, Mezzadri, Francesco; Random matrix theory J. Phys. A 36 (2003), no. 12, 2945–2962. MR1986401

Autocorrelation of random matrix polynomials, Conrey, J. B.; Farmer, D. W.; Keating, J. P.; Rubinstein, M. O.; Snaith, N. C.; Comm. Math. Phys. 237 (2003), no. 3, 365–395. MR1993332

Higher correlations of divisor sums related to primes. III. Small gaps between primes, Goldston, D. A.; Yldrm, C. Y.; Proc. Lond. Math. Soc. (3) 95 (2007), no. 3, 653–686. MR2368279

Lectures on sieves, Heath-Brown, D. R.; Proceedings of the Session in Analytic Number Theory and Diophantine Equations, 50 pp Bonner Math. Schriften, 360, Univ. Bonn, Bonn, 2003. MR2075627

Strong multiplicity one for the Selberg class, Soundararajan, K.; Canad. Math. Bull. 47 (2004), no. 3, 468–474. MR2073408

The density of rational points on Cayley's cubic surface, Heath-Brown, D. R.; Proceedings of the Session in Analytic Number Theory and Diophantine Equations, 33 pp

0-efficient triangulations of 3-manifolds, Jaco, William; Rubinstein, J. Hyam; J. Differential Geom. 65 (2003), no. 1, 61–168. MR2057531

Normal families of holomorphic functions and mappings on a Banach space, Kim, Kang-Tae; Krantz, Steven G.; Expo. Math. 21 (2003), no. 3, 193–218. MR2006009

Random matrix theory and discrete moments of the Riemann zeta function, Hughes, C. P.; Random matrix theory. J. Phys. A 36 (2003), no. 12, 2907–2917. MR1986398

Linear statistics of low-lying zeros of L -functions, Hughes, C. P.; Rudnick, Z.; Q. J. Math. 54 (2003), no. 3, 309–333. MR2013141

The strong perfect graph theorem, Chudnovsky, Maria; Robertson, Neil; Seymour, Paul; Thomas, Robin; Ann. of Math. (2) 164 (2006), no. 1, 51–229. MR2233847

2003

Friedmann cosmology and almost isotropy, Sormani, C.; Geom. Funct. Anal. 14 (2004), no. 4, 853–912. MR2084982

Omega results for the divisor and circle problems, Soundararajan, K.; Int. Math. Res. Not. 2003, no. 36, 1987–1998. MR1991181

Knot and braid invariants from contact homology. I, Ng, Lenhard; Geom. Topol. 9 (2005), 247–297 (electronic). MR2116316

Deformations of Maass forms, Farmer, D. W.; Lemurell, S.; Math. Comp. 74 (2005), no. 252, 1967–1982 (electronic). MR2164106

Invariant sets and measures of nonexpansive group automorphisms, Lindenstrauss, Elon; Schmidt, Klaus; Israel J. Math. 144 (2004), 29–60. MR2121533

On a wave map equation arising in general relativity, Ringström, Hans; XIVth International Congress on Mathematical Physics, 330–336, World Sci. Publ., Hackensack, NJ, 2005.

Knot and braid invariants from contact homology. II, Ng, Lenhard; Geom. Topol. 9 (2005), 1603–1637 (electronic). MR2175153

On the distribution of lattice points in thin annuli, Hughes, C. P.; Rudnick, Z.; Int. Math. Res. Not. 2004, no. 13, 637–658. MR2039790

Rationality of partial zeta functions, Wan, Daqing; Indag. Math. (N.S.) 14 (2003), no. 2, 285–292. MR2027782

The average analytic rank of elliptic curves, Heath-Brown, D. R.; Duke Math. J. 122 (2004), no. 3, 591–623. MR2057019

Degree 1 elements of the Selberg class, Soundararajan, K.; Expo. Math. 23 (2005), no. 1, 65–70. MR2133337

Pseudomoments of the Riemann zeta-function and pseudomagic squares, Conrey, Brian; Gamburd, Alex; J. Number Theory 117 (2006), no. 2, 263–278. MR2213764

The number of unsieved integers up to x , Granville, Andrew; Soundararajan, K.; Acta Arith. 115 (2004), no. 4, 305–328. MR2099829

Compactness results in symplectic field theory, Bourgeois, F.; Eliashberg, Y.; Hofer, H.; Wysocki, K.; Zehnder, E.; Geom. Topol. 7 (2003), 799–888 (electronic). MR2026549

Convexity of the figure eight solution to the three-body problem, Fujiwara, Toshiaki; Montgomery, Richard; Pacific J. Math. 219 (2005), no. 2, 271–283. MR2175116

Tropical convexity, Develin, Mike; Sturmfels, Bernd; Doc. Math. 9 (2004), 1–27 (electronic).

Maximal triangulations of a regular prism, Develin, Mike; J. Combin. Theory Ser. A 106 (2004), no. 1, 159–164. MR2050122

Differentiation evens out zero spacings, Farmer, David W.; Rhoades, Robert C.; Trans. Amer. Math. Soc. 357 (2005), no. 9, 3789–3811 (electronic). MR2146650

The number of extensions of a number field with fixed degree and bounded discriminant, Ellenberg, Jordan S.; Venkatersh, Akshay; Ann. of Math. (2) 163 (2006), no. 2, 723–741. MR2199231

A counterexample to the Gouva-Mazur conjecture, Buzzard, Kevin; Calegari, Frank; C. R. Math. Acad. Sci. Paris 338 (2004), no. 10, 751–753. MR2059481

Slopes of overconvergent 2-adic modular forms, Buzzard, Kevin; Calegari, Frank; Compos. Math. 141 (2005), no. 3, 591–604. MR2135279

The Hecke algebra T_k has large index, Calegari, Frank; Emerton, Matthew; Math. Res. Lett. 11 (2004), no. 1, 125–137. MR2046205

On the ramification of Hecke algebras at Eisenstein primes, Calegari, Frank; Emerton, Matthew; Invent. Math. 160 (2005), no. 1, 97–144. MR2129709

On the rank of a tropical matrix, Develin, Mike; Santos, Francisco; Sturmfels, Bernd; Combinatorial and computational geometry, 213–242, Math. Sci. Res. Inst. Publ., 52, Cambridge Univ. Press, Cambridge, 2005 MR2178322

2004

Coefficients and roots of Ehrhart polynomials, Beck, M.; De Loera, J. A.; Develin, M.; Pfeifle, J.; Stanley, R. P.; Integer points in polyhedra—geometry, number theory, algebra, optimization, 15–36, Contemp. Math., 374, Amer. Math. Soc., Providence, RI, 2005. MR2134759

Modular parametrizations of Neumann-Setzer elliptic curves, Stein, William; Watkins, Mark; Int. Math. Res. Not. 2004, no. 27, 1395–1405. MR2052021

An arithmetic formula for certain coefficients of the Euler product of Hecke polynomials, Li, Xian-Jin; J. Number Theory 113 (2005), no. 1, 175–200. MR2141763

Prolongations of geometric overdetermined systems, Branson, Thomas; ap, Andreas; Eastwood, Michael; Gover, A. Rod; Internat. J. Math. 17 (2006), no. 6, 641–664. MR2246885

An explicit formula for Hecke L -functions, Li, Xian-Jin; Integers 8 (2008), no. 2, A8, 18 pp. MR2438293

Classification of Ding's Schubert varieties: finer rook equivalence, Develin, Mike; Martin, Jeremy L.; Reiner, Victor; Canad. J. Math. 59 (2007), no. 1, 3662 MR2289417

The density of rational points on a certain singular cubic surface, Browning, T. D.; J. Number Theory 119 (2006), no. 2, 242–283. MR2250046

Tropical secant varieties of linear spaces, Develin, Mike; Discrete Comput. Geom. 35 (2006), no. 1, 117–129. MR2183492

Vanishing of L -functions of elliptic curves over number fields, David, Chantal; Fearnley, Jack; Kisilevsky, Hershy; Ranks of elliptic curves and random matrix theory, 247–259, London Math. Soc. Lecture Note Ser., 341, Cambridge Univ. Press, Cambridge, 2007 MR2322350

Ranks of elliptic curves and random matrix theory, Conrey, J. B.; D. W. Farmer, F. Mezzadri and N. C. Snaith, Editors; London Mathematical Society Lecture Note Series, 341. Cambridge University Press, Cambridge, 2007. vi+361 pp

The zeros of random polynomials cluster uniformly near the unit circle, Hughes, C. P.; Nikeghbali, A.; Compos. Math. 144 (2008), no. 3, 734–746. MR2422348

Fibred sites and stack cohomology, Jardine, J. F.; Math. Z. 254 (2006), no. 4, 811–836. MR2253470

The Gromov norm of the product of two surfaces, Bowen, Lewis; De Loera, Jess A.; Develin, Mike; Santos, Francisco; Topology 44 (2005), no. 2, 321–339.

Legendrian solid-torus links, Ng, Lenhard; Traynor, Lisa; J Symplectic Geom. 2 (2004), no. 3, 411–443. MR2131643

Framed knot contact homology, Ng, Lenhard; Duke Math. J. 141 (2008), no. 2, 365–406. MR2376818

Dimensions of tight spans, Develin, Mike; Ann. Comb. 10 (2006), no. 1, 53–61. MR2232988

Converse theorems assuming a partial Euler product, Farmer, David W.; Wilson, Kevin; Ramanujan J. 15 (2008), no. 2, 205–218. MR2377576

Basic analytic number theory, Farmer, David W.; Recent perspectives in random matrix theory and number theory. 185–200 London Math. Soc. Lecture Note Ser., 322, Cambridge Univ. Press, Cambridge, 2005. MR2166462

Lower-order terms of the 1-level density of families of elliptic curves, Young, Matthew P.; Int. Math. Res. Not. 2005, no. 10, 587–633. MR2147004

Fire containment in grids of dimension three and higher, Develin, Mike; Hartke, Stephen G.; Discrete Appl. Math. 155 (2007), no. 17, 2257–2268. MR2360655

Higher moments of primes in short intervals. II, Chan, Tsz Ho; Int J. Number Theory 1 (2005), no. 2, 207–214. MR2173380

Lower order terms of the second moment of $S(t)$, Chan, Tsz Ho; Acta Arith. 123 (2006), no. 4, 313–333. MR2262247

Random matrix theory and the Fourier coefficients of half-integral-weight forms, Conrey, J. B.; Keating, J. P.; Rubinstein, M. O.; Snaith, N. C.; Experiment. Math. 15 (2006), no. 1, 67–82. MR2229387

Conormal bundles, contact homology and knot invariants, Ng, Lenhard; The interaction of finite-type and Gromov-Witten invariants (BIRS 2003), 129–144 Geom. Topol. Monogr., 8, Geom. Topol. Publ., Coventry, 2006. MR2402823

Notes on pair correlation of zeros and prime numbers, Goldston, D. A.; Recent perspectives in random matrix theory and number theory 79–110 London Math. Soc. Lecture Note Ser., 322, Cambridge Univ. Press, Cambridge, 2005. MR2166459

Higher correlations of divisor sums related to primes. II. Variations of the error term in the prime number theorem, Goldston, D. A.; Yldrm, C. Y.; Proc. Lond. Math. Soc. (3) 95 (2007), no. 1, 199–247. MR2329552

On the non-vanishing of elliptic curve L -functions at the central point, Young, Matthew P.; Proc. London Math. Soc. (3) 93 (2006), no. 1, 1–42. MR2235480

Non-Archimedean amoebas and tropical varieties, Einsiedler, Manfred; Kapranov, Mikhail; Lind, Douglas; J. Reine Angew. Math. 601 (2006), 139–157. MR2289207

2005

Rook poset equivalence of Ferrers boards, Develin, Mike; Order 23 (2006), no. 2-3, 179–195. MR2308905

A non-regular Gröbner fan, Jensen, Anders Nedergaard; Discrete Comput. Geom. 37 (2007), no. 3, 443–453. MR2301528

Rigidity theory for matroids, Develin, Mike; Martin, Jeremy L.; Reiner, Victor; Comment. Math. Helv. 82 (2007), no. 1, 197–233. MR2296062

Plane curves and contact geometry, Ng, Lenhard; Proceedings of Gökova Geometry-Topology Conference 2005, 165–174, Gökova Geometry/Topology Conference (GGT), Gökova, 2006. MR2282015

The correspondence between augmentations and rulings for Legendrian knots, Ng, Lenhard L.; Sabloff, Joshua M.; Pacific J. Math. 224 (2006), no. 1, 141–150. MR2231655

Finding almost squares, Chan, Tsz Ho; Acta Arith. 121 (2006), no. 3, 221–232.

Finding almost squares. II, Chan, Tsz Ho; Integers 5 (2005), no. 1, A23, 4 pp. (electronic). MR2192242

Approximating reals by sums of two rationals, Chan, Tsz Ho; J. Number Theory 128 (2008), no. 5, 1182–1194. MR2406486

A note on primes in short intervals, Chan, Tsz Ho; Int. J. Number Theory 2 (2006), no. 1, 105–110. MR2217796

Connectivity properties of moment maps on based loop groups, Harada, Megumi; Holm, Tara S.; Jeffrey, Lisa C.; Mare, Augustin-Liviu; Geom. Topol. 10 (2006), 1607–1634 (electronic). MR2284047

The K-theory of abelian symplectic quotients, Harada, Megumi; Landweber, Gregory D.; Math. Res. Lett. 15 (2008), no. 1, 57–72. MR2367174

Small gaps between primes exist, Goldston, Daniel Alan; Motohashi, Yoichi; Pintz, János; Yıldırım, Cem Yalın; Proc. Japan Acad. Ser. A Math. Sci. 82 (2006), no. 4, 61–65. MR2222213

The maximum size of L-functions, Farmer, David W.; Gonek, S. M.; Hughes, C. P.; J. Reine Angew Math. 609 (2007), 215–236. MR2350784

Low-lying zeros of L-functions with orthogonal symmetry, Hughes, C. P.; Miller, Steven J.; Duke Math. J. 136 (2007), no. 1, 115–172. MR2271297

An efficient shooting algorithm for Evans function calculations in large systems, Humpherys, Jeffrey; Zumbrun, Kevin; Phys. D 220 (2006), no. 2, 116–126. MR2253406

A Legendrian Thurston-Bennequin bound from Khovanov homology, Ng, Lenhard; Algebr. Geom. Topol. 5 (2005), 1637–1653 MR2186113

Secondary terms in the number of vanishings of quadratic twists of elliptic curve L-functions, Conrey, J. Brian; Pokharel, Atul; Rubinstein, Michael O.; Watkins, Mark; Ranks of elliptic curves and random matrix theory, 215–232 London Math. Soc. Lecture Note Ser., 341, Cambridge Univ. Press, Cambridge, 2007. MR2322347

Discretisation for odd quadratic twists, Conrey, J. Brian; Rubinstein, Michael O.; Snaith, Nina C.; Watkins, Mark; Ranks of elliptic curves and random matrix theory, 201–214 London Math. Soc. Lecture Note Ser., 341, Cambridge Univ. Press, Cambridge, 2007. MR2322346

Random polynomials, random matrices and L-functions, Farmer, David W.; Mezzadri, Francesco; Snaith, Nina C.; Nonlinearity 19 (2006), no. 4, 919–936. MR2214950

Applications of the L-functions ratios conjectures, Conrey, J. B.; Snaith, N. C.; Proc. Lond. Math. Soc. (3) 94 (2007), no. 3, 594–646. MR2325314

A note on $S(t)$ and the zeros of the Riemann zeta-function, Goldston, D. A.; Gonek, S. M.; Bull. Lond. Math. Soc. 39 (2007), no. 3, 482–486. MR2331578

Large gaps between the zeros of the Riemann zeta function, Ng, Nathan; J. Number Theory 128 (2008), no. 3, 509–556. MR2389854

Modeling families of L-functions, Farmer, David W.; Ranks of elliptic curves and random matrix theory, 53–69, London Math. Soc. Lecture Note Ser., 341, Cambridge Univ. Press, Cambridge, 2007. MR2322337

A hybrid Euler-Hadamard product for the Riemann zeta function, Gonek, S. M.; Hughes, C. P.; Keating, J. P.; Duke Math. J. 136 (2007), no. 3, 507–549. MR2309173

The path to recent progress on small gaps between primes, Goldston, D. A.; Pintz, J.; Yıldırım, C. Y.; Analytic number theory, 129–139, Clay Math. Proc., 7, Amer. Math. Soc., Providence, RI, 2007. MR2362197

2006

Crystallization of random trigonometric polynomials, Farmer, David W.; Yerrington, Mark; J. Stat. Phys. 123 (2006), no. 6, 1219–1230. MR2253876

The crystal structure on the set of Mirković-Vilonen polytopes, Kamnitzer, Joel; Adv. Math. 215 (2007), no. 1, 66–93. MR2354986

A converse theorem for $\Gamma_0(13)$, Conrey, J. B.; Farmer, David W.; Odgers, B. E.; Snaith, N. C.; J. Number Theory 122 (2007), no. 2, 314–323. MR2292257

A smoothed GPY sieve, Motohashi, Yoichi; Pintz, János; Bull. Lond. Math. Soc. 40 (2008), no. 2, 298310. MR2414788

On permanental polynomials of certain random matrices, Fyodorov, Yan V.; Int. Math. Res. Not. 2006, Art. ID 61570, 37 pp. MR2219231

The expected number of zeros of a random system of p -adic polynomials, Evans, Steven N.; Electron. Comm. Probab. 11 (2006), 278–290. MR2266718

On zeros of Eisenstein series for genus zero Fuchsian groups, Hahn, Heekyoung; Proc. Amer. Math. Soc. 135 (2007), no. 8, 23912401 MR2302560

Tropical polytopes and cellular resolutions, Develin, Mike; Yu, Josephine; Experiment. Math. 16 (2007), no. 3, 277–291. MR2367318

The 2-adic eigencurve is proper, Buzzard, Kevin; Calegari, Frank; Doc. Math. 2006, Extra Vol., 211232 MR2290588

Automorphic forms and rational homology 3-spheres, Calegari, Frank; Dunfield, Nathan M.; Geom. Topol. 10 (2006), 295329 MR2224458

Diophantine definability and decidability in extensions of degree 2 of totally real fields, Shlapentokh, Alexandra; J. Algebra 313 (2007), no. 2, 846–896. MR2329574

Fusion products of Kirillov-Reshetikhin modules and fermionic multiplicity formulas, Ardonne, Eddy; Kedem, Rinat; J. Algebra 308 (2007), no. 1, 270–294. MR2290922

Integration over compact quantum groups, Banica, Teodor; Collins, Benot; Publ. Res. Inst. Math. Sci. 43 (2007), no. 2, 277–302. MR2341011

New scaling of Itzykson-Zuber integrals, Collins, Benot; niady, Piotr; Ann. Inst. H. Poincaré Probab. Statist. 43 (2007), no. 2, 139–146. MR2303115

Friendly measures, homogeneous flows and singular vectors, Kleinbock, Dmitry; Weiss, Barak; Algebraic and topological dynamics, 281–292, Contemp. Math., 385, Amer. Math. Soc., Providence, RI, 2005. MR2180240

Distribution of lattice orbits on homogeneous varieties, Gorodnik, Alex; Weiss, Barak; Geom. Funct. Anal. 17 (2007), no. 1, 58–115. MR2306653

Shellability and higher Cohen-Macaulay connectivity of generalized cluster complexes, Athanasiadis, Christos A.; Tzanaki, Eleni; Israel J. Math. 167 (2008), 177–191. MR2448023

Orbifold cohomology of hypertoric varieties, Goldin, Rebecca F.; Harada, Megumi; Internat. J. Math. 19 (2008), no. 8, 927–956. MR2446508

An overview of the Riemannian metrics on spaces of curves using the Hamiltonian approach, Michor, Peter W.; Mumford, David; Appl. Comput. Harmon. Anal. 23 (2007), no. 1, 74–113. MR2333829

Large annihilators in Cayley-Dickson algebras, Biss, Daniel K.; Dugger, Daniel; Isaksen, Daniel C.; Comm. Algebra 36 (2008), no. 2, 632–664.

On the enumeration of positive cells in generalized cluster complexes and Catalan hyperplane arrangements, Athanasiadis, Christos A.; Tzanaki, Eleni; J. Algebraic Combin. 23 (2006), no. 4, 355–375. MR2236611

h -vectors of generalized associahedra and noncrossing partitions, Athanasiadis, Christos A.; Brady, Thomas; McCammond, Jon; Watt, Colum; Int. Math. Res. Not. 2006, Art. ID 69705, 28 pp. MR2249994

On some enumerative aspects of generalized associahedra, Athanasiadis, Christos A.; European J. Combin. 28 (2007), no. 4, 1208–1215. MR2305586

Shellability of noncrossing partition lattices, Athanasiadis, Christos A.; Brady, Thomas; Watt, Colum; Proc. Amer. Math. Soc. 135 (2007), no. 4, 939949 MR2262893

On a generalization of Szemerédi's theorem, Shkredov, I. D.; Proc. London Math. Soc. (3) 93 (2006), no. 3, 723–760.

Large annihilators in Cayley-Dickson algebras, Biss, Daniel K.; Dugger, Daniel; Isaksen, Daniel C.; Comm. Algebra 36 (2008), no. 2, 632–664.

Compactification of the moduli space of hyperplane arrangements, Hacking, Paul; Keel, Sean; Tevelev, Jenia; J. Algebraic Geom. 15 (2006), no. 4, 657–680. MR2237265

Calculation and estimation of the Poisson kernel, Krantz, Steven G.; J. Math. Anal. Appl. 302 (2005), no. 1, 143–148. MR2107352

The boundary behavior of holomorphic functions: global and local results, Krantz, Steven G.; Asian J. Math. 11 (2007), no. 2, 179–199. MR2328891

Small contingency tables with large gaps, Sullivant, Seth; SIAM J. Discrete Math. 18 (2005), no. 4, 787793 MR2157826

Polyhedral conditions for the nonexistence of the MLE for hierarchical log-linear models, Eriksson, Nicholas; Fienberg, Stephen E.; Rinaldo, Alessandro; Sullivant, Seth; J. Symbolic Comput. 41 (2006), no. 2, 222–233. MR2197157

The Carathéodory and Kobayashi metrics and applications in complex analysis, Krantz, Steven G.; Amer. Math. Monthly 115 (2008), no. 4, 304–329. MR2398411

On the asymptotic dynamics of a quantum system composed by heavy and light particles, Adami, Riccardo; Figari, Rodolfo; Finco, Domenico; Teta, Alessandro; Comm. Math. Phys. 268 (2006), no. 3, 819–852. MR2259215

Horizontal configurations of points in link complements, Krammer, Daan; European Congress of Mathematics, 233–245, Eur. Math. Soc., Zürich, 2005. MR2185747

On the computation of the coefficients of a modular form, Edixhoven, Bas; Algorithmic number theory, 30–39, Lecture Notes in Comput. Sci., 4076, Springer, Berlin, 2006. MR2282913

Jacobiens, jacobiennes et stabilité numérique, Couveignes, Jean-Marc; Groupes de Galois arithmétiques et différentiels, 91–125, Sémin. Congr., 13, Soc. Math. France, Paris, 2006. MR2316347

Integrable systems and modular forms of level 2, Ablowitz, Mark J.; Chakravarty, Sarbarish; Hahn, Heekyoung; J. Phys. A 39 (2006), no. 50, 15341–15353. MR2285702

A geometric boson-fermion correspondence, Savage, Alistair; C. R. Math. Acad. Sci. Soc. R. Can. 28 (2006), no. 3, 65–84. MR2310488

On exceptional eigenvalues of the Laplacian for $\Gamma_0(N)$, Li, Xian-Jin; Proc. Amer. Math. Soc. 136 (2008), no. 6, 1945–1953. MR2383500

Ehrhart polynomial roots and Stanley’s non-negativity theorem, Braun, Benjamin; Develin, Mike; Integer points in polyhedra—geometry, number theory, representation theory, algebra, optimization, statistics, 67–78, Contemp. Math., 452, Amer. Math. Soc., Providence, RI, 2008. MR2405764

Triple correlation of the Riemann zeros, Conrey, J. Brian; Snaith, Nina C.; J. Théor. Nombres Bordeaux 20 (2008), no. 1, 61–106. MR2434158

Moduli spaces of self-dual connections over asymptotically locally flat gravitational instantons, Etesi, Gábor; Jardim, Marcos; Comm. Math. Phys. 280 (2008), no. 2, 285–313.

The topology of asymptotically locally flat gravitational instantons, Etesi, Gábor; Phys. Lett. B 641 (2006), no. 6, 461–465. MR2305450

Complex scaling and geometric analysis of several variables, Kim, Kang-Tae; Krantz, Steven G.; Bull. Korean Math. Soc. 45 (2008), no. 3, 523–561. MR2442193

Interior gradient estimates and existence theorems for constant mean curvature graphs in $M^n \times \mathbf{R}$, Spruck, Joel; Pure Appl. Math. Q. 3 (2007), no. 3, part 2, 785–800. Jacobiens, jacobiennes et stabilité numérique. MR2351645

Evans functions, Jost functions, and Fredholm determinants, Gesztesy, Fritz; Latushkin, Yuri; Makarov, Konstantin A.; Arch. Ration. Mech. Anal. 186 (2007), no. 3, 361–421. MR2350362

Fredholm determinants and the Evans function for difference equations, Cramer, David; Latushkin, Yuri; Perspectives in operator theory, 111–135, Banach Center Publ., 75, Polish Acad. Sci., Warsaw, 2007. MR2336714

Geometric integration theory, Krantz, Steven G.; Parks, Harold R.; Cornerstones. Birkhäuser Boston, Inc., Boston, MA, 2008. xvi+339 pp. MR2427002

The mathematical contributions of Serge Lang, Jorgenson, Jay; Krantz, Steven G.; Notices Amer. Math. Soc. 54 (2007), no. 4, 476–497. MR2305293

The Lagrange inversion theorem in the smooth case, Krantz, Steven G.; Parks, Harold R.; J. Math. Anal. Appl. 340 (2008), no. 2, 1263–1270. MR2390927

Lower order terms in the full moment conjecture for the Riemann zeta function, Conrey, J. B.; Farmer, D. W.; Keating, J. P.; Rubinstein, M. O.; Snaith, N. C.; J. Number Theory 128 (2008), no. 6, 1516–1554. MR2419176

2007

Knot homology via derived categories of coherent sheaves. I. The $\mathfrak{sl}(2)$ -case, Cautis, Sabin; Kamnitzer, Joel; Duke Math. J. 142 (2008), no. 3, 511–588. MR2411561

Zeros of random polynomials on $\mathbb{C}^m$, Bloom, Thomas; Shiffman, Bernard; Math. Res. Lett. 14 (2007), no. 3, 469–479. MR2318650

CLT for L^p moduli of continuity of Gaussian processes, Marcus, Michael B.; Rosen, Jay; Stochastic Process. Appl. 118 (2008), no. 7, 1107–1135. MR2428711

On directed triangles in digraphs, Hamburger, Peter; Haxell, Penny; Kostochka, Alexandr; Electron. J. Combin. 14 (2007), no. 1, Note 19, 9 pp. (electronic). MR2350447

Cycles in dense digraphs, Chudnovsky, Maria; Seymour, Paul; Sullivan, Blair; Combinatorica 28 (2008), no. 1, 1–18. MR2399005

The Carathéodory-Cartan-Kaup-Wu theorem on an infinite-dimensional Hilbert space, Cima, Joseph A.; Graham, Ian; Kim, Kang Tae; Krantz, Steven G.; Nagoya Math. J. 185 (2007), 17–30. MR2301456

Decay of weak solutions to the 2D dissipative quasi-geostrophic equation, Niche, César J.; Schonbek, Mara E.; Comm. Math. Phys. 276 (2007), no. 1, 93–115. MR2342289

Zero forcing sets and the minimum rank of graphs, Hogben, Leslie; et al (AIM Minimum Rank-Special Graphs Work Group); Linear Algebra Appl. 428 (2008), no. 7, 1628–1648.

The minimum rank of symmetric matrices described by a graph: a survey, Fallat, Shaun M.; Hogben, Leslie; Linear Algebra Appl. 426 (2007), no. 2-3, 558–582. MR2350678

New results on the Bergman kernel of the worm domain in complex space, Krantz, Steve G.; Peloso, Marco M.; Electron. Res. Announc. Math. Sci. 14 (2007), 35–41 (electronic). MR2336324

Hives and the fibres of the convolution morphism, Kamnitzer, Joel; Selecta Math. (N.S.) 13 (2007), no. 3, 483–496. MR2383603

Differential inequalities for Riesz means and Weyl-type bounds for eigenvalues, Harrell, Evans M., II; Hermi, Lotfi; J. Funct. Anal. 254 (2008), no. 12, 3173–3191. MR2418623

Approximate bivariate factorization, a geometric viewpoint, Galligo, Andre; van Hoeij, Mark; SNC'07, 1–10, ACM, New York, 2007. MR2404907

Lieb-Thirring inequalities on the half-line with critical exponent, Ekholm, Tomas; Frank, Rupert L.; J. Eur. Math. Soc. (JEMS) 10 (2008), no. 3, 739–755. MR2421159

The Bergman kernel and projection on non-smooth worm domains, Krantz, Steven G.; Peloso, Marco M.; Houston J. Math. 34 (2008), no. 3, 873–950. MR2448387

Operator-valued semicircular elements: solving a quadratic matrix equation with positivity constraints, Helton, J. William; Rashidi Far, Reza; Speicher, Roland; Int. Math. Res. Not. IMRN 2007, no. 22, Art. ID rnm086, 15 pp. MR2376207

The number of imaginary quadratic fields with a given class number, Soundararajan, K.; Hardy-Ramanujan J. 30 (2007), 13–18. MR2440317

${}^{\perp}N$ as an abstract elementary class, Baldwin, John T.; Eklof, Paul C.; Trlifaj, Jan; Ann. Pure Appl. Logic 149 (2007), no. 1-3, 25–39. MR2364195

Extreme values of $\zeta'(\rho)$, Ng, Nathan; J. Lond. Math. Soc. (2) 78 (2008), no. 2, 273–289. MR2439625

A discrete mean value of the derivative of the Riemann zeta function, Ng, Nathan; Mathematika 54 (2007), no. 1-2, 113–155. MR2428211

The polytope of dual degree partitions, Bhattacharya, Amitava; Friedland, Shmuel; Peled, Uri N.; Linear Algebra Appl. 426 (2007), no. 2-3, 458–461. MR2350669

Singular value inequality and graph energy change, Day, Jane; So, Wasin; Electron. J. Linear Algebra 16 (2007), 291–299 (electronic). MR2349924

Minimum rank of matrices described by a graph or pattern over the rational, real and complex numbers, Berman, Avi; Friedland, Shmuel; Hogben, Leslie; Rothblum, Uriel G.; Shader, Bryan; Electron. J. Combin. 15 (2008), no. 1, Research Paper 25, 19 pp. MR2383445

Divisorial valuations via arcs, de Fernex, Tommaso; Ein, Lawrence; Ishii, Shihoko; Publ. Res. Inst. Math. Sci. 44 (2008), no. 2, 425–448. MR2426354

An upper bound for the minimum rank of a graph, Berman, Avi; Friedland, Shmuel; Hogben, Leslie; Rothblum, Uriel G.; Shader, Bryan; Linear Algebra Appl. 429 (2008), no. 7, 1629–1638. MR2444348

Extreme values of zeta and L-functions, Soundararajan, K.; Math. Ann. 342 (2008), no. 2, 467–486. MR2425151

Random continuous functions, Brodhead, Paul; Cenzer, Douglas; Rummel, Jeffrey B.; Proceedings of the Third International Conference on Computability and Complexity in Analysis (CCA 2006), 275–287 (electronic), Electron. Notes Theor. Comput. Sci., 167, Elsevier, Amsterdam, 2007. MR2321789

Algorithmic randomness of closed sets, Barmpalias, George; Brodhead, Paul; Cenzer, Douglas; Dashti, Seyyed; Weber, Rebecca; J. Logic Comput. 17 (2007), no. 6, 1041–1062. MR2376074

Algorithmic randomness of continuous functions, Barmpalias, George; Brodhead, Paul; Cenzer, Douglas; Rummel, Jeffrey B.; Weber, Rebecca; Arch. Math. Logic 46 (2008), no. 7-8, 533–546. MR2395557

A dynamical systems approach to the Kadison-Singer problem, Paulsen, Vern I.; J. Funct. Anal. 255 (2008), no. 1, 120–132. MR2417811

Some new equivalences of Anderson's paving conjectures, Paulsen, Vern I.; Raghupathi, Mrinal; Proc. Amer. Math. Soc. 136 (2008), no. 12, 4275–4282. MR2431040

The Hartogs extension phenomenon redux, Krantz, Steven G.; Complex Var. Elliptic Equ. 53 (2008), no. 4, 343–353. MR2397869

A decomposition theorem for frames and the Feichtinger conjecture, Casazza, Peter G.; Kutyniok, Gitta; Speegle, Darrin; Tremain, Janet C.; Proc. Amer. Math. Soc. 136 (2008), no. 6, 2043–2053. MR2383510

The Kadison-Singer problem in mathematics and engineering: a detailed account, Casazza, Peter G.; Fickus, Matthew; Tremain, Janet C.; Weber, Eric; Operator theory, operator algebras, and applications, 299–355, Contemp. Math., 414, Amer. Math. Soc., Providence, RI, 2006. MR2277219

A guide to complex variables, Krantz, Steven G.; The Dolciani Mathematical Expositions, 32. MAA Guides, 1. Mathematical Association of America, Washington, DC, 2008. MR2426554

Knot homology via derived categories of coherent sheaves. II. $\mathfrak{sl}_m$ case, Cautis, Sabin; Kamnitzer, Joel; Invent. Math. 174 (2008), no. 1, 165–232. MR2430980

Analysis and geometry on worm domains, Krantz, Steven G.; Peloso, Marco M.; J. Geom. Anal. 18 (2008), no. 2, 478–510. MR2393268

Effective packing dimension of Π_1^0 -classes, Conidis, Chris J.; Proc. Amer. Math. Soc. 136 (2008), no. 10, 3655–3662. MR2415051

The spectral decomposition of shifted convolution sums, Blomer, Valentin; Harcos, Gergely; Duke Math. J. 144 (2008), no. 2, 321–339. MR2437682

Bounds for modular L -functions in the level aspect, Blomer, Valentin; Harcos, Gergely; Michel, Philippe; Ann. Sci. École Norm. Sup. (4) 40 (2007), no. 5, 697–740. MR2382859

Graph energy change due to edge deletion, Day, Jane; So, Wasin; Linear Algebra Appl. 428 (2008), no. 8–9, 2070–2078. MR2401641

Some properties of the Hoffman-Singleton graph, Rowlinson, Peter; Sciriha, Irene; Appl. Anal. Discrete Math. 1 (2007), no. 2, 438–445. MR2355285

Orthogonal representations, minimum rank, and graph complements, Hogben, Leslie; Linear Algebra Appl. 428 (2008), no. 11–12, 2560–2568. MR2416570

Graphs with extremal energy should have a small number of distinct eigenvalues, Cvetkovi, D.; Grout, J.; Bull. Cl. Sci. Math. Nat. Sci. Math. No. 32 (2007), 43–57. MR2386171

2008

The inverse inertia problem for graphs: cut vertices, trees, and a counterexample, Barrett, Wayne; Hall, H. Tracy; Loewy, Raphael; Linear Algebra Appl. 431 (2009), no. 8, 1147–1191 MR2547901

Quasi-socle ideals in local rings with Gorenstein tangent cones, Goto, Shiro; Kimura, Satoru; Matsuoka, Naoyuki; Phuong, Tran Thi; J. Commut. Algebra 1 (2009), no. 4, 603–620 MR2575833

Quasi-socle ideals in Gorenstein numerical semigroups rings, Goto, Shiro; Kimura, Satoru; Matsuoka, Naoyuki; J. Algebra 320 (2008), no. 1, 276–293. MR2417989

Quasi-socle ideals in a Gorenstein local ring, Goto, Shiro; Takahashi, Ryo; Matsuoka, Naoyuki; J. Pure Appl. Algebra 212 (2008), no. 5, 969–980. MR2387580

The Goto numbers of parameter ideals, Henie, William; Swanson, Irena; J. Algebra 321 (2009), no. 1, 152–166 MR2469354

The Q -matrix completion problem, DeAlba, Luz Maria; Hogben, Leslie; Sarma, Bhaba Kumar; Electron. J. Linear Algebra 18 (2009), 176–191 MR2491654

F -thresholds, tight closure, integral closure, and multiplicity bounds, Huneke, Craig; Mustaa, Mircea; Takagi, Shunsuke; Watanabe, Kei-ichi; Special volume in honor of Melvin Hochster. Michigan Math. J. 57 (2008), 463–483 MR2492463

Derivatives of (modified) Fredholm determinants and stability of standing and traveling waves, Gesztesy, Fritz; Latushkin, Yuri; Zumbun, Kevin; J. Math. Pures Appl. (9) 90 (2008), no. 2, 160–200. MR2437809

Maximum generic nullity of a graph, Hogben, Leslie; Shader, Bryan; Linear Algebra Appl. 432 (2010), no. 4, 857–866 MR2577633

Correlations of eigenvalues and Riemann zeros, Conrey, John Brian; Snaith, Nina Claire; Commun. Number Theory Phys. 2 (2008), no. 3, 477–536 MR2482941

An ontology of directional regularity implying joint regularity, Krantz, Steven G.; Real Anal. Exchange 34 (2009), no. 2, 255–266 MR2569187

Affine Deligne-Lusztig varieties in affine flag varieties, Gortz, Ulrich; Haines, Thomas J.; Kottwitz, Robert E.; Reuman, Daniel C.; Compos. Math. 146 (2010), no. 5, 1339-1382

On the minimum rank of not necessarily symmetric matrices: a preliminary study, Barioli, Francesco; Fallat, Shaun M.; Hall, H. Tracy; Hershkowitz, Daniel; Hogben, Leslie; van der Holst, Hein; Shader, Bryan; Electron. J. Linear Algebra 18 (2009), 126-145 MR2294340

Universally optimal matrices and field independence of the minimum rank of a graph, DeAlba, Luz M.; Grout, Jason; Hogben, Leslie; Mikkelsen, Rana; Rasmussen, Kaela; Electron. J. Linear Algebra 18 (2009), 403-419 MR2530143

Rational symplectic field theory for Legendrian knots, Ng, Lenhard; Invent. Math. 182 (2010), no. 3, 451-512 MR2737704

Determinant computations for some classes of Toeplitz-Hankel matrices, Basor, Estelle L.; Ehrhardt, Torsten; Oper. Matrices 3 (2009), no. 2, 167-186 MR2522773

Congruence for rational points over finite fields and coniveau over local fields, Esnault, Helene; Xu, Chenyang; Trans. Amer. Math. Soc. 361 (2009), no. 5, 2679-2688 MR2471935

Painlevé V and the distribution function of a discontinuous linear statistic in the Laguerre unitary ensembles, Basor, Estelle; Chen, Yang; J. Phys. A 42 (2009), no. 3, 035203, 18 pp MR2525311

Morse theory of the moment map for representations of quivers, Harada, Megumi; Wilkin, Graeme; Geom. Dedicata 150 (2011), 307-353 MR2753709

Log Fano varieties over function fields of curves, Hassett, Brendan; Tschinkel, Yuri; Invent. Math. 173 (2008), no. 1, 7-21. MR2403393

Moving and ample cones of holomorphic symplectic fourfolds, Hassett, Brendan; Tschinkel, Yuri; Geom. Funct. Anal. 19 (2009), no. 4, 1065-1080 MR2570315

Flops on holomorphic symplectic fourfolds and determinantal cubic hypersurfaces, Hassett, Brendan; Tschinkel, Yuri; J. Inst. Math. Jussieu 9 (2010), no. 1, 125-153 MR2576800

Split reductions of simple abelian varieties, Achter, Jeffrey D.; Math. Res. Lett. 16 (2009), no. 2, 199-213

Matrices totally positive relative to a tree, Johnson, Charles R.; Costas-Santos, Roberto S.; Tadchiev, Boris; Electron. J. Linear Algebra 18 (2009), 211-221 MR2505131

Weak subconvexity for central values of L-functions, Soundararajan, Kannan; Ann. of Math. (2) 172 (2010), no. 2, 1469-1498 MR2680497

Nonhomeomorphic conjugates of connected Shimura varieties, Milne, James S.; Suh, Junecue; Amer. J. Math. 132 (2010), no. 3, 731-750 MR2666906

Two applications of twisted Floer homology, Ai, Yinghua; Ni, Yi; Int. Math. Res. Not. IMRN 2009, no. 19, 3726-3746 MR2539188

Integral transforms and Drinfeld centers in derived algebraic geometry, Ben-Zvi, David; Francis, John; Nadler, David; J. Amer. Math. Soc. 23 (2010), no. 4, 909-966 MR2669705

String orientations on simplicial homology manifolds, Morava, Jack; Adv. Theor. Math. Phys. 14 (2010), no. 3, 991-1000 MR2801416

The String bordism of BE_8 and $BE_8 \times BE_8$ through dimension 14, Hill, Michael A.; Illinois J. Math. 53 (2009), no. 1, 183-196

OP2 bundles in M-theory, Sati, Hisham; Commun. Number Theory Phys. 3 (2009), no. 3, 495-530

Anomalies of E8 gauge theory on string manifolds, Sati, Hisham; Internat. J. Modern Phys. A 26 (2011), no. 13, 2177-2197 MR2803340

Problems on automorphism groups of nonpositively curved polyhedral complexes and their lattices, Farb, Benson; Hruska, Chris; Thomas, Anne; Geometry, rigidity, and group actions, 515-560, Chicago Lectures in Math., Univ. Chicago Press, Chicago, IL, 2011 MR2807842

Additive invariants on quantum channels and regularized minimum entropy, Friedland, Shmuel; Topics in operator theory. Volume 2. Systems and mathematical physics, 237-245, Oper. Theory Adv. Appl., 203, Birkhäuser Verlag, Basel, 2010 MR2683243

Gale duality and Koszul duality, Braden, Tom; Licata, Anthony; Proudfoot, Nicholas; Webster, Ben; Adv. Math. 225 (2010), no. 4, 2002-2049 MR2680198

Multivariate Pólya-Schur classification problems in the Weyl algebra, Borcea, J.; Brändén, P.; Proc. Lond. Math. Soc. (3) 101 (2010), no. 1, 73-104 MR2661242

Pólya-Schur master theorems for circular domains and their boundaries, Borcea, Julius; Brändén, Petter; Ann. of Math. (2) 170 (2009), no. 1, 465-492 MR2521123

Applications of stable polynomials to mixed determinants: Johnson's conjectures, unimodality, and symmetrized Fischer products, Borcea, Julius; Brändén, Petter; Duke Math. J. 143 (2008), no. 2, 205-223. MR2420507

Negative dependence and the geometry of polynomials, Borcea, Julius; Brändén, Petter; Liggett, Thomas M.; J. Amer. Math. Soc. 22 (2009), no. 2, 521-567 MR2476782

Mass equidistribution for Hecke eigenforms, Holowinsky, Roman; Soundararajan, Kannan; Ann. of Math. (2) 172 (2010), no. 2, 1517-1528 MR2680499

Legendrian helix and cable links, Ding, Fan; Geiges, Hansjörg; Commun. Contemp. Math. 12 (2010), no. 3, 487-500 MR2661275

Rational 6-cycles under iteration of quadratic polynomials, Stoll, Michael; LMS J. Comput. Math. 11 (2008), 367-380 MR2465796

Minimum rank problems, Hogben, Leslie; Linear Algebra Appl. 432 (2010), no. 8, 1961-1974

The Beilinson-Drinfeld Grassmannian and symplectic knot homology, Kamnitzer, Joel; Grassmannians, moduli spaces and vector bundles, 81-94, Clay Math. Proc., 14, Amer. Math. Soc., Providence, RI, 2011 MR2807850

Scale-invariant groups, Nekrashevych, Volodymyr; Pete, Gábor; Groups Geom. Dyn. 5 (2011), no. 1, 139-167 MR2763782

Uniform estimates for order statistics and Orlicz functions, Gordon, Yehoram; Litvak, Alexander E.; Schütt, Carsten; Werner, Elisabeth; Positivity 16 (2012), no. 1, 1-28 MR2892571

Arithmetic harmonic analysis on character and quiver varieties, Hausel, Tamás; Letellier, Emmanuel; Rodriguez-Villegas, Fernando; Duke Math. J. 160 (2011), no. 2, 323-400

Electromagnetic integral equations requiring small numbers of Krylov-subspace iterations, Bruno, Oscar; Elling, Tim; Paffenroth, Randy; Turc, Catalin; J. Comput. Phys. 228 (2009), no. 17, 6169-6183 MR2549839

A high-order integral algorithm for highly singular PDE solutions in Lipschitz domains, Bruno, Oscar P.; Ovall, Jeffrey S.; Turc, Catalin; Computing 84 (2009), no. 3-4, 149-181 MR2506259

Finding and investigating exact spherical codes, Wang, Jeffrey; Experiment. Math. 18 (2009), no. 2, 249-256. 94B60 MR2549693

The role of string topology in symplectic field theory, Cieliebak, Kai; Latschev, Janko; New perspectives and challenges in symplectic field theory 113-146 CRM Proc. Lecture Notes, 49, Amer. Math. Soc., Providence, RI, 2009 MR2555935

On four-dimensional gradient shrinking solitons, Ni, Lei; Wallach, Nolan; Int. Math. Res. Not. IMRN 2008, no. 4, Art. ID rnm152, 13 pp. MR2424175

Cohomogeneity one disk bundles with normal homogeneous collars, Schwachhöfer, Lorenz J.; Tapp, Kristopher; Proc. Lond. Math. Soc. (3) 99 (2009), no. 3, 609-632 MR2551465

Homogeneous metrics with nonnegative curvature, Schwachhöfer, Lorenz; Tapp, Kristopher; J. Geom. Anal. 19 (2009), no. 4, 929-943 MR2538943

A duality exact sequence for Legendrian contact homology, Ekholm, Tobias; Etnyre, John B.; Sabloff, Joshua M.; Duke Math. J. 150 (2009), no. 1, 1-75 MR2560107

Palindromic random trigonometric polynomials, Conrey, J. Brian; Farmer, David W.; Imamoglu, zlem; Proc. Amer. Math. Soc. 137 (2009), no. 5, 1835-1839 MR2470844

A rank inequality for the Tate conjecture over global function fields, Lyons, Christopher; Expo. Math. 27 (2009), no. 2, 93-108

Techniques for determining the minimum rank of a small graph, DeLoss, Laura; Grout, Jason; Hogben, Leslie; McKay, Tracy; Smith, Jason; Tims, Geoff; Linear Algebra Appl. 432 (2010), no. 11, 2995-3001 MR2639262

Zero forcing parameters and minimum rank problems, Barioli, Francesco; Barrett, Wayne; Fallat, Shaun M.; Hall, H. Tracy; Hogben, Leslie; Shader, Bryan; van den Driessche, P.; van der Holst, Hein; Linear Algebra Appl. 433 (2010), no. 2, 401-411 MR2645093

Expected values of parameters associated with the minimum rank of a graph, Hall, H. Tracy; Hogben, Leslie; Martin, Ryan; Shader, Bryan; Linear Algebra Appl. 433 (2010), no. 1, 101-117 MR2645069

Revisiting the Bourgain-Tzafriri restricted invertibility theorem, Casazza, Peter G.; Tremain, Janet C.; Oper. Matrices 3 (2009), no. 1, 97-110 MR2500595

2009

Sign patterns that require eventual positivity or require eventual nonnegativity, Ellison, Elisabeth M.; Hogben, Leslie; Tsatsomeros, Michael J.; Electron. J. Linear Algebra 19 (2009), 98-107 MR2599879

On isoperimetric profiles of algebras, D'Adderio, Michele; J. Algebra 322 (2009), no. 1, 177-209 MR2526383

Critical percolation of virtually free groups and other tree-like graphs, pakulová, Iva; Ann. Probab. 37 (2009), no. 6, 2262-2296 MR2573558

Critical percolation of free product of groups, Kozáková, Iva; Internat. J. Algebra Comput. 18 (2008), no. 4, 683-704 MR2428151

Some group theory problems, Sapir, Mark V.; Internat. J. Algebra Comput. 17 (2007), no. 5-6, 1189-1214 MR2355692

Categorical geometric skew Howe duality, Cautis, Sabin; Kamnitzer, Joel; Licata, Anthony; Invent. Math. 180 (2010), no. 1, 111-159 MR2593278

Coherent sheaves and categorical sl_2 actions, Cautis, Sabin; Kamnitzer, Joel; Licata, Anthony; Duke Math. J. 154 (2010), no. 1, 135-179

Minimum rank of skew-symmetric matrices described by a graph, IMA-ISU research group on minimum rank.; IMA-ISU research group members: Mary Allison, Elizabeth Bodine, Luz Maria DeAlba, Joyati Debnath, Laura DeLoss, Colin Garnett, Jason Grout, Leslie Hogben, Bokhee Im, Hana Kim, Reshmi Nair, Olga Pryporova, Kendrick Savage, Bryan Shader and Amy Wangsness Wehe. Linear Algebra Appl. 432 (2010), no. 10, 2457-2472 MR2608168

A sufficient condition for a polynomial to be stable, Katkova, Olga M.; Vishnyakova, Anna M.; J. Math. Anal. Appl. 347 (2008), no. 1, 81-89 MR2433826

On the stability of Taylor sections of a function $\sum_{k=0}^{\infty} z^k/a^{k^2}$, $a > 1$, Katkova, Olga M.; Vishnyakova, Anna M.; Comput. Methods Funct. Theory 9 (2009), no. 1, 305-322

Projective background of the infinitesimal rigidity of frameworks, Izmistiev, Ivan; *Geom. Dedicata* 140 (2009), 183-203 MR2504741

The second moment of $GL(3) \times GL(2)$ L -functions integrated, Young, Matthew P.; *Adv. Math.* 226 (2011), no. 4, 3550-3578 MR2764898

Generating potentially nilpotent full sign patterns, Kim, I.-J.; Olesky, D. D.; Shader, B. L.; van den Driessche, P.; van der Holst, H.; Vander Meulen, K. N.; *Electron. J. Linear Algebra* 18 (2009), 162-175 MR2491653

Rate of convergence for the Legendre pseudospectral optimal control of feedback linearizable systems, Kang, Wei; *J. Control Theory Appl.* 8 (2010), no. 4, 391-405 MR2790716

A bijection between dominant Shi regions and core partitions, Fishel, Susanna; Vazirani, Monica; *European J. Combin.* 31 (2010), no. 8, 2087-2101 MR2718283

Topological quantum field theories from compact Lie groups, Freed, Daniel S.; Hopkins, Michael J.; Lurie, Jacob; Teleman, Constantin; *A celebration of the mathematical legacy of Raoul Bott*, 367-403 CRM Proc. Lecture Notes, 50, Amer. Math. Soc., Providence, RI, 2010 MR2648901

On the classification of topological field theories, Lurie, Jacob; *Current developments in mathematics*, 2008, 129-280, Int. Press, Somerville, MA, 2009 MR2555928

Rigidity of the Mori cone for Fano manifolds, Winiewski, Jarosaw A.; *Bull. Lond. Math. Soc.* 41 (2009), no. 5, 779-781 MR2557458

Allow problems concerning spectral properties of sign pattern matrices: a survey, Catral, M.; Olesky, D. D.; van den Driessche, P.; *Linear Algebra Appl.* 430 (2009), no. 11-12, 3080-3094 MR2517861

Large deviations of empirical measures of zeros of random polynomials, Zeitouni, Ofer; Zelditch, Steve; *Int. Math. Res. Not. IMRN* 2010, no. 20, 3935-3992 MR2738347

Sign patterns that allow eventual positivity, Berman, Abraham; Catral, Minerva; DeAlba, Luz M.; Elhashash, Abed; Hall, Frank J.; Hogben, Leslie; Kim, In-Jae; Olesky, D. D.; Tarazaga, Pablo; Tsatsomeros, Michael J.; van den Driessche, P.; *Electron. J. Linear Algebra* 19 (2009), 108-120 MR2599880

A note on minimum rank and maximum nullity of sign patterns, Hogben, Leslie; *Electron. J. Linear Algebra* 22 (2011), 203-213 MR2781047

Uniform bounds on pre-images under quadratic dynamical systems, Faber, Xander; Hutz, Benjamin; Ingram, Patrick; Jones, Rafe; Manes, Michelle; Tucker, Thomas J.; Zieve, Michael E.; *Math. Res. Lett.* 16 (2009), no. 1, 87-101 MR2480563

On the number of rational iterated preimages of the origin under quadratic dynamical systems, Faber, Xander; Hutz, Benjamin; Stoll, Michael; *Int. J. Number Theory* 7 (2011), no. 7, 1781-1806 MR2854215

Minimal triangulations for an infinite family of lens spaces, Jaco, William; Rubinstein, Hyam; Tillmann, Stephan; *J. Topol.* 2 (2009), no. 1, 157-180 MR2499441

Coverings and minimal triangulations of 3-manifolds, Jaco, William; Rubinstein, J. Hyam; Tillmann, Stephan; *Algebr. Geom. Topol.* 11 (2011), no. 3, 1257-1265 MR2801418

A non-solvable Galois extension of Q ramified at 2 only, Dembélé, Lassina; *C. R. Math. Acad. Sci. Paris* 347 (2009), no. 3-4, 111-116

Posets of annular non-crossing partitions of types B and D , Nica, Alexandru; Oancea, Ion; *Discrete Math.* 309 (2009), no. 6, 1443-1466 MR2510552

The triangle and the open triangle, Kozma, Gady; *Ann. Inst. Henri Poincaré Probab. Stat.* 47 (2011), no. 1, 75-79 MR2779397

On F_k -like groups, Olshanski, A. Yu.; Sapir, M. V.; *Algebra Logika* 48 (2009), no. 2, 245-257, 284, 286-287; translation in *Algebra Logic* 48 (2009), no. 2, 140-146

Is the critical percolation probability local?, Benjamini, Itai; Nachmias, Asaf; Peres, Yuval; Probab. Theory Related Fields 149 (2011), no. 1-2, 261-269 MR2773031

New examples of finitely presented groups with strong fixed point properties, Chatterji, Indira; Kassabov, Martin; J. Topol. Anal. 1 (2009), no. 1, 1-12 MR2649346

Isometric immersions and compensated compactness, Chen, Gui-Qiang; Slemrod, Marshall; Wang, Dehua; Comm. Math. Phys. 294 (2010), no. 2, 411-437 MR2579461

Weak continuity of the Gauss-Codazzi-Ricci system for isometric embedding, Chen, Gui-Qiang; Slemrod, Marshall; Wang, Dehua; Proc. Amer. Math. Soc. 138 (2010), no. 5, 1843-1852 MR2587469

On the ranks and border ranks of symmetric tensors, Landsberg, J. M.; Teitler, Zach; Found. Comput. Math. 10 (2010), no. 3, 339-366 MR2628829

Holographic algorithms without matchgates, Landsberg, J.M.; Morton, Jason; Norine, Serguei; Linear Algebra Appl. 438 (2013), no. 2, 782-795 MR2996367

An overview of mathematical issues arising in the geometric complexity theory approach to VNP, Bürgisser, Peter; Landsberg, J. M.; Manivel, Laurent; Weyman, Jerzy; SIAM J. Comput. 40 (2011), no. 4, 1179-1209

On the complexity of MMSN, Bodirsky, Manuel; Chen, Hubie; Feder, Tomás; SIAM J. Discrete Math. 26 (2012), no. 1, 404-414 MR2902654

A note on certain Kronecker coefficients, Manivel, L.; Proc. Amer. Math. Soc. 138 (2010), no. 1, 1-7 MR2550164

On rectangular Kronecker coefficients, Manivel, Laurent; J. Algebraic Combin. 33 (2011), no. 1, 153-162 MR2747806

On spinor varieties and their secants, Manivel, Laurent; SIGMA Symmetry Integrability Geom. Methods Appl. 5 (2009), Paper 078, 22 pp MR2529169

Dichotomy for generic supercuspidal representations of G_2 , Savin, Gordan; Weissman, Martin H.; Compos. Math. 147 (2011), no. 3, 735-783

Redundancy for localized frames, Balan, Radu; Casazza, Pete; Landau, Zeph; Israel J. Math. 185 (2011), 445-476 MR2837145

Sparse fusion frames: existence and construction, Calderbank, Robert; Casazza, Peter G.; Heinecke, Andreas; Kutyniok, Gitta; Pezeshki, Ali; Adv. Comput. Math. 35 (2011), no. 1, 1-31 MR2805789

Steinberg representation of $GS(4)$: Bessel models and integral representation of L -functions, Pitale, Ameya; Pacific J. Math. 250 (2011), no. 2, 365-406

Rank one reducibility for metaplectic groups via theta correspondence, Hanzer, Marcela; Mui, Goran; Canad. J. Math. 63 (2011), no. 3, 591-615 MR2828534

Global effects of DNA replication and DNA replication origin activity on eukaryotic gene expression, Omberg, Larsson; Joel R Meyerson, Kayta Kobayashi, Lucy S Drury, John F X Diffley and Orly Alter; Molecular Systems Biology 5 Article number: 312 doi:10.1038/msb.2009.70

Positivity and optimization for semi-algebraic functions, Lasserre, Jean B.; Putinar, Mihai; SIAM J. Optim. 20 (2010), no. 6, 3364-3383 MR2763508

Sign patterns that allow strong eventual nonnegativity, Catral, M.; Erickson, C.; Hogben, L.; Olesky, D. D.; van den Driessche, P.; Electron. J. Linear Algebra 23 (2012), 1-10 MR2889569

Boundedness of families of canonically polarized manifolds: a higher dimensional analogue of Shafarevich's conjecture, Kovács, Sándor J.; Lieblich, Max; Ann. of Math. (2) 172 (2010), no. 3, 1719-1748

Obstructions to the existence and squeezing of Lagrangian cobordisms, Sabloff, Joshua M.; Traynor, Lisa; J. Topol. Anal. 2 (2010), no. 2, 203-232 MR2652907

Optimization of 3D Plasmonic Crystal Structures for Refractive Index Sensing, Maria, Joana; Tu T. Truong, Jimin Yao, Tae-Woo Lee, Ralph G. Nuzzo, Sven Leyffer, Stephen K. Gray, and John A. Rogers; J. Phys. Chem. C 2009, 113, 10493-10499

Connections between Floer-type invariants and Morse-type invariants of Legendrian knots, Henry, Michael B.; Pacific J. Math. 249 (2011), no. 1, 77-133

Preperiodic points and unlikely intersections, Baker, Matthew; DeMarco, Laura; Duke Math. J. 159 (2011), no. 1, 1-29 MR2817647

A bijection between (bounded) dominant Shi regions and core partitions, Fishel, Susanna; Vazirani, Monica; 22nd International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC 2010), 283-294, Discrete Math. Theor. Comput. Sci. Proc., AN, Assoc. Discrete Math. Theor. Comput. Sci., Nancy, 2010 MR2673843

2010

Thurston norm and cosmetic surgeries, Ni, Yi; Low-dimensional and symplectic topology. 53-63 Proc. Sympos. Pure Math., 82, Amer. Math. Soc., Providence, RI, 2011 MR2768653

Dehn surgeries on knots in product manifolds, Ni, Yi; J. Topol. 4 (2011), no. 4, 799-816 MR2860343

Roots of the derivative of the Riemann-zeta function and of characteristic polynomials, Dueez, Eduardo; Farmer, David W.; Froehlich, Sara; Hughes, C. P.; Mezzadri, Francesco; Phan, Toan; Nonlinearity 23 (2010), no. 10, 2599-2621 MR2683784

Landau-Siegel zeros and zeros of the derivative of the Riemann zeta function, Farmer, David W.; Ki, Haseo; Adv. Math. 230 (2012), no. 4-6, 2048-2064 MR2927364

Bounds for entropy numbers for some critical operators, Lifshits, M. A.; Trans. Amer. Math. Soc. 364 (2012), no. 4, 1797-1813 MR2869192

Vertex and edge spread of zero forcing number, maximum nullity, and minimum rank of a graph, Edholm, Christina J.; Hogben, Leslie; Huynh, My; LaGrange, Joshua; Row, Darren D.; Linear Algebra Appl. 436 (2012), no. 12, 4352-4372 MR2917414

More than 41% of the zeros of the zeta function are on the critical line, Bui, H. M.; Conrey, Brian; Young, Matthew P.; Acta Arith. 150 (2011), no. 1, 35-64 MR2825573

A three-dimensional signed small ball inequality, Bilyk, Dmitriy; Lacey, Michael T.; Parissis, Ioannis; Vagharshakyan, Armen; Dependence in probability, analysis and number theory, 73-87, Kendrick Press, Heber City, UT, 2010 MR2731041

Paths of matrices with the strong Perron-Frobenius property converging to a given matrix with the Perron-Frobenius property, Elhashash, Abed; Rothblum, Uriel G.; Szyld, Daniel B.; Electron. J. Linear Algebra 19 (2009), 90-97 MR2599878

Path regularity of Gaussian processes via small deviations, Aurzada, Frank; Probab. Math. Statist. 31 (2011), no. 1, 61-78 MR2804976

Directional discrepancy in two dimensions, Bilyk, Dmitriy; Ma, Xiaomin; Pipher, Jill; Spencer, Craig; Bull. Lond. Math. Soc. 43 (2011), no. 6, 1151-1166 MR2861537

Submetries vs. submersions, Guijarro, Luis; Walschap, Gerard; Rev. Mat. Iberoam. 27 (2011), no. 2, 605-619 MR2848532

Complexes, duality and Chern classes of logarithmic forms along hyperplane arrangements, Denham, Graham; Schulze, Mathias; Arrangements of hyperplanes Sapporo 2009, 27-57, Adv. Stud. Pure Math., 62, Math. Soc. Japan, Tokyo, 2012 MR2933791

Eventual regularization of the slightly supercritical fractional Burgers equation, Chan, Chi Hin; Czubak, Magdalena; Silvestre, Luis; Discrete Contin. Dyn. Syst. 27 (2010), no. 2, 847-861 MR2600693

Eventually cyclic matrices and a test for strong eventual nonnegativity, Hogben, Leslie; Electron. J. Linear Algebra 19 (2009), 129-140 MR2763039

A simple combinatorial criterion for projective toric manifolds with dual defect, Dickenstein, Alicia; Nill, Benjamin; Math. Res. Lett. 17 (2010), no. 3, 435-448 MR2653680

Convex normality of rational polytopes with long edges, Gubeladze, Joseph; Adv. Math. 230 (2012), no. 1, 372-389 MR2900547

Spanning and independence properties of frame partitions, Bodmann, Bernhard G.; Casazza, Peter G.; Paulsen, Vern I.; Speegle, Darrin; Proc. Amer. Math. Soc. 140 (2012), no. 7, 2193-2207 MR2898683

Syndetic sets and amenability, Paulsen, Vern I.; Proc. Amer. Math. Soc. 140 (2012), no. 6, 1997-2001 MR2888187

Projections and the Kadison-Singer problem, Casazza, Pete; Edidin, Dan; Kalra, Deepti; Paulsen, Vern I.; Oper. Matrices 1 (2007), no. 3, 391-408 MR2344683

The Kadison-Singer problem and the uncertainty principle, Casazza, Peter G.; Weber, Eric; Proc. Amer. Math. Soc. 136 (2008), no. 12, 4235-4243 MR2431036

Oscillatory damping in long-time evolution of the surface quasi-geostrophic equations with generalized viscosity: a numerical study, Ohkitani, Koji; Sakajo, Takashi; Nonlinearity 23 (2010), no. 12, 3029-3051

Dynamics of the Jacobian matrices arising in three-dimensional Euler equations: application of Riccati theory, Ohkitani, Koji; Proc. R. Soc. Lond. Ser. A Math. Phys. Eng. Sci. 466 (2010), no. 2117, 1429-1439 MR2608383

Geometric and topological structures related to M-branes, Sati, Hisham; Superstrings, geometry, topology, and C-algebras, 181-236 Proc. Sympos. Pure Math., 81, Amer. Math. Soc., Providence, RI, 2010

On the geometry of the supermultiplet in M-theory, Sati, Hisham; Int. J. Geom. Methods Mod. Phys. 8 (2011), no. 7, 1519-1551 MR2873821

The Laplace transform of the cut-and-join equation and the Bouchard-Mario conjecture on Hurwitz numbers, Eynard, Bertrand; Mulase, Motohico; Safnuk, Bradley; Publ. Res. Inst. Math. Sci. 47 (2011), no. 2, 629-670 MR2849645

Quartic rings associated to binary quartic forms, Wood, Melanie Matchett; Int. Math. Res. Not. IMRN 2012, no. 6, 1300-1320 MR2899953

Parametrizing quartic algebras over an arbitrary base, Wood, Melanie Matchett; Algebra Number Theory 5 (2011), no. 8, 1069-1094 MR2948473

Rings and ideals parameterized by binary n -ic forms, Wood, Melanie Matchett; J. Lond. Math. Soc. (2) 83 (2011), no. 1, 208-231 MR2763952

Gauss composition over an arbitrary base, Wood, Melanie Matchett; Adv. Math. 226 (2011), no. 2, 1756-1771 MR2737799

Singularities of generalized Richardson varieties, Billey, Sara; Coskun, Izzet; Comm. Algebra 40 (2012), no. 4, 1466-1495 MR2912998

The fundamental lemma of Jacquet and Rallis, Yun, Zhiwei; Duke Math. J. 156 (2011), no. 2, 167-227 MR2769216

On the canonical decomposition of generalized modular functions, Kohnen, Winfried; Mason, Geoffrey; Proc. Amer. Math. Soc. 140 (2012), no. 4, 1125-1132 MR2869098

Recent progress on the quantum unique ergodicity conjecture, Sarnak, Peter; Bull. Amer. Math. Soc. (N.S.) 48 (2011), no. 2, 211-228

Scalar curvature and Q -curvature of random metrics, Canzani, Yaiza; Jakobson, Dmitry; Wigman, Igor; Electron. Res. Announc. Math. Sci. 17 (2010), 43-56

Supercharacters, symmetric functions in noncommuting variables, and related Hopf algebras, Aguiar, Marcelo; André, Carlos; Benedetti, Carolina; Bergeron, Nantel; Chen, Zhi; Diaconis, Persi; Hendrickson, Anders; Hsiao, Samuel; Isaacs, I. Martin; Jedwab, Andrea; Johnson, Kenneth; Karaali, Gizem; Lauve, Aaron; Le, Tung; Lewis, Stephen; Li, Huilan; Magaard, Kay; Marberg, Eric; Novelli, Jean-Christophe; Pang, Amy; Saliola, Franco; Tevlin, Lenny; Thibon, Jean-Yves; Thiem, Nathaniel; Venkateswaran, Vidya; Vinroot, C. Ryan; Yan, Ning; Zabrocki, Mike; Adv. Math. 229 (2012), no. 4, 2310-2337 MR2880223

A linear algebraic view of partition regular matrices, Hogben, Leslie; McLeod, Jillian; Linear Algebra Appl. 433 (2010), no. 11-12, 1809-1820 MR2736100

Minimum rank, maximum nullity and zero forcing number for selected graph families, Almodovar, Edgar; DeLoss, Laura; Hogben, Leslie; Hogenson, Kirsten; Murphy, Kaitlyn; Peters, Travis; Ramirez, Camila A.; Involve 3 (2010), no. 4, 371-392 MR2763266

On ℓ -adic representations for a space of noncongruence cuspforms, Hoffinan, Jerome William; Long, Ling; Verrill, Helena; Proc. Amer. Math. Soc. 140 (2012), no. 5, 1569-1584 MR2869141

Dualities in convex algebraic geometry, Rostalski, Philipp; Sturmfels, Bernd; Rend. Mat. Appl. (7) 30 (2010), no. 3-4, 285-327 MR2830307

Quartic curves and their bitangents, Plaumann, Daniel; Sturmfels, Bernd; Vinzant, Cynthia; J. Symbolic Comput. 46 (2011), no. 6, 712-733 MR2781949

Closure of the cone of sums of 2d-powers in commutative real topological algebras, Ghasemi, Mehdi; Kuhlmann, Salma; J. Funct. Anal. 264 (2013), no. 1, 413-427 MR2995714

Computation of the highest coefficients of weighted Ehrhart quasi-polynomials of rational polyhedra, Baldoni, V.; Berline, N.; De Loera, J. A.; Köppe, M.; Vergne, M.; Found. Comput. Math. 12 (2012), no. 4, 435-469 MR2946460

Characterizing projective spaces on deformations of Hilbert schemes of $K3$ surfaces, Harvey, David; Hassett, Brendan; Tschinkel, Yuri; Comm. Pure Appl. Math. 65 (2012), no. 2, 264-286 MR2855546

Stable $A1$ -homotopy and R -equivalence, Asok, Aravind; Haesemeyer, Christian; J. Pure Appl. Algebra 215 (2011), no. 10, 2469-2472

Cohomologie non Ramifiée et conjecture de Hodge entière, Colliot-Thélène, Jean-Louis; Voisin, Claire; Duke Math. J. 161 (2012), no. 5, 735-801 MR2904092

R -equivalence on low degree complete intersections, Pirutka, Alena; J. Algebraic Geom. 21 (2012), no. 4, 707-719 MR2957693

On the graph complement conjecture for minimum rank, Barioli, Francesco; Barrett, Wayne; Fallat, Shaun M.; Hall, H. Tracy; Hogben, Leslie; van der Holst, Hein; Linear Algebra Appl. 436 (2012), no. 12, 4373-4391 MR2917415

Constructions of potentially eventually positive sign patterns with reducible positive part, Archer, Marie; Catral, Minerva; Erickson, Craig; Haber, Rana; Hogben, Leslie; Martinez-Rivera, Xavier; Ochoa, Antonio; Involve 4 (2011), no. 4, 405-410 MR2905236

Certified numerical homotopy tracking, Beltrán, Carlos; Leykin, Anton; Exp. Math. 21 (2012), no. 1, 69-83

Numerical algebraic geometry, Leykin, Anton; J. Softw. Algebra Geom. 3 (2011), 5-10 MR2881262

An algebraic approach to the radius of comparison, Blackadar, Bruce; Robert, Leonel; Tikuisis, Aaron P.; Toms, Andrew S.; Winter, Wilhelm; Trans. Amer. Math. Soc. 364 (2012), no. 7, 3657-3674 MR2901228

Classical Kloosterman sums: representation theory, magic squares, and Ramanujan multigraphs, Fleming, Patrick S.; Garcia, Stephan Ramon; Karaali, Gizem; J. Number Theory 131 (2011), no. 4, 661-680 MR2753270

Freeness and multirestriction of hyperplane arrangements, Schulze, Mathias; Compos. Math. 148 (2012), no. 3, 799-806 MR2925399

2011

Beyond endoscopy for the Rankin-Selberg L -function, Herman, P. Edward; J. Number Theory 131 (2011), no. 9, 1691-1722 MR2802142

PDEs satisfied by extreme eigenvalues distributions of GUE and LUE, Basor, Estelle; Chen, Yang; Zhang, Lun; Random Matrices Theory Appl. 1 (2012), no. 1, 1150003, 21 pp. MR2930381

Algorithms for Bernstein-Sato polynomials and multiplier ideals, Berkesch, Christine; Leykin, Anton; ISSAC 2010 Proceedings of the 2010 International Symposium on Symbolic and Algebraic Computation, 99-106, ACM, New York, 2010 MR2920542

Tensor Decomposition Reveals Concurrent Evolutionary Convergences and Divergences and Correlations with Structural Motifs in Ribosomal RNA, Muralidhara, C.; Gross, A.M.; Gutell, R.R.; Alter, O.; PLoS ONE 6(4): e18768. doi:10.1371/journal.pone.0018768

On the topology of the double spherical pendulum, Hu, Shengda; Leandro, Eduardo; Santoprete, Manuele; Regul. Chaotic Dyn. 17 (2012), no. 1, 36-53 MR2886625

A continuum neuronal model for the instigation and propagation of cortical spreading depression, Yao, Wei; Huang, Huaxiong; Miura, Robert M.; Bull. Math. Biol. 73 (2011), no. 11, 2773-2790 MR2855191

Patch ideals and Peterson varieties, Insko, Erik; Yong, Alexander; Transform Groups 17 (2012), no. 4, 1011-1036 MR3000479

Mock modular forms as p -adic modular forms, Bringmann, Kathrin; Guerzhoy, Pavel; Kane, Ben; Trans. Amer. Math. Soc. 364 (2012), no. 5, 2393-2410 MR2888211

CM values of automorphic Green functions on orthogonal groups over totally real fields, Bruinier, Jan H.; Yang, Tonghai; Arithmetic geometry and automorphic forms, 1-54 Adv. Lect. Math. (ALM), 19, Int. Press, Somerville, MA, 2011. 14G35 (11F55 11G18) MR2906905

ℓ -adic properties of the partition function, Folsom, Amanda; Kent, Zachary A.; Ono, Ken; Appendix A by Nick Ramsey. Adv. Math. 229 (2012), no. 3, 1586-1609 MR2871150

Musings on multilinear fitting, Mohlenkamp, Martin J.; Linear Algebra Appl. 438 (2013), no. 2, 834-852 MR2996370

Differentiability of solutions with respect to the initial data in differential equations with state-dependent delays, Hartung, Ferenc; J. Dynam. Differential Equations 23 (2011), no. 4, 843-884 MR2859943

Differentiability of solutions with respect to parameters in neutral differential equations with state-dependent delays, Hartung, Ferenc; Hungary Journal of Mathematical Analysis and Applications DOI:10.1016/j.jmaa.2005.12.025

Finiteness of spatial central configurations in the five-body problem, Hampton, Marshall; Jensen, Anders; Celestial Mech. Dynam. Astronom. 109 (2011), no. 4, 321-332 MR2783101

An explicit non-smoothable component of the compactified Jacobian, Kass, Jesse Leo; J. Algebra 370 (2012), 326-343 MR2966842

Isomorphic properties of intersection bodies, Koldobsky, A.; Paouris, G.; Zymonopoulou, M.; J. Funct. Anal. 261 (2011), no. 9, 2697-2716 MR2826412

Gröbner strata in the Hilbert scheme of points, Lederer, Mathias; J. Commut. Algebra 3 (2011), no. 3, 349-404

Expansions of k -Schur functions in the affine nilCoxeter algebra, Berg, Chris; Bergeron, Nantel; Pon, Steven; Zabrocki, Mike; Electron. J. Combin. 19 (2012), no. 2, Paper 55, 20 pp MR2946113

Pairwise ranking: Choice of method can produce arbitrarily different rank order, Tran, Ngoc Mai; Linear Algebra Appl. 438 (2013), no. 3, 1012-1024 MR2997792

Statistical ranking and combinatorial Hodge theory, Jiang, Xiaoye; Lim, Lek-Heng; Yao, Yuan; Ye, Yinyu; Math. Program. 127 (2011), no. 1, Ser. B, 203-244. 68T05 (90C27 91B14) MR2776715

Upgraded methods for the effective computation of marked schemes on a strongly stable ideal, Bertone, Cristina; Cioffi, Francesca; Lella, Paolo; Roggero, Margherita;; J. Symbolic Comput. 50 (2013), 263-290 MR2996879

Wronskians, cyclic group actions, and ribbon tableaux, Purbhoo, Kevin; Trans. Amer. Math. Soc. 365 (2013), no. 4, 1977-2030 MR3009651

Hermitian symmetric polynomials and CR complexity, D'Angelo, John P.; Lebl, Jiri; J. Geom. Anal. 21 (2011), no. 3, 599-619 MR2810845

Pfister's theorem fails in the Hermitian case, D'Angelo, John P.; Lebl, Jiri; Proc. Amer. Math. Soc. 140 (2012), no. 4, 1151-1157 MR2869101

Hermitian analogues of Hilbert's 17-th problem, D'Angelo, John P.; Adv. Math. 226 (2011), no. 5, 4607-4637

Note on positive semidefinite maximum nullity and positive semidefinite zero forcing number of partial 2-trees, Ekstrand, J.; Erickson, C.; Hay, D.; Hogben, L.; Roat, J.; Electron. J. Linear Algebra 23 (2012), 79-87 MR2889573

Propagation time for zero forcing on a graph, Hogben, Leslie; Huynh, My; Kingsley, Nicole; Meyer, Sarah; Walker, Shanise; Young, Michael; Discrete Appl. Math. 160 (2012), no. 13-14, 1994-2005. MR2927529

A Higher-Order Generalized Singular Value Decomposition for Comparison of Global mRNA Expression from Multiple Organisms, Ponnappalli, Sri Priya; Saunders, Michael A.; Van Loan, Charles F. ; Alter, Orly; PLoS ONE 6(12): e28072. doi:10.1371/journal.pone.0028072

Twisted topological structures related to M-branes, Sati, Hisham; Int. J. Geom. Methods Mod. Phys. 8 (2011), no. 5, 1097-1116

Scalar curvature and Q-curvature of random metrics, Canzani, Yaiza; Jakobson, Dmitry; Wigman, Igor; Electron. Res. Announc. Math. Sci. 17 (2010), 43-56

The moment problem for continuous positive semidefinite linear functionals, Ghasemi, Mehdi; Kuhlmann, Salma; Samei, Ebrahim; Arch. Math. (Basel) 100 (2013), no. 1, 43-53 MR3009662

Stable A1-homotopy and R-equivalence, Asok, Aravind; Haesemeyer, Christian; J. Pure Appl. Algebra 215 (2011), no. 10, 2469-2472

2012

The Hilbert series of $N=1SO(N_c)$ and $Sp(N_c)$ SQCD, Painlevé VI and integrable systems, Basor, Estelle; Chen, Yang; Mekareeya, Noppadol; Nuclear Phys. B 860 (2012), no. 3, 421-463

Products of independent non-Hermitian random matrices, O'Rourke, Sean; Soshnikov, Alexander; Electron. J. Probab. 16 (2011), no. 81, 2219-2245 MR2861673

Fluctuations of matrix entries of regular functions of Wigner matrices, Pizzo, Alessandro; Renfrew, David; Soshnikov, Alexander; J. Stat. Phys. 146 (2012), no. 3, 550-591 MR2880032

The Wigner-Dyson-Mehta bulk universality conjecture for Wigner matrices, Tao, Terence; Vu, Van; Electron. J. Probab. 16 (2011), no. 77, 2104-2121 MR2851058

A two weight inequality for the Hilbert transform assuming an energy hypothesis, Lacey, Michael T.; Sawyer, Eric T.; Uriarte-Tuero, Ignacio; J. Funct. Anal. 263 (2012), no. 2, 305-363 MR2923415

A bound to kill the ramification over function fields, Pirutka, Alena; J. Algebra 377 (2013), 173-178 MR3008901

A geometric deletion-restriction formula, Denham, Graham; Garrounian, Mehdi; Schulze, Mathias; Adv. Math. 230 (2012), no. 4-6, 1979-1994 MR2927361

- Software for exact integration of polynomials over polyhedra*, De Loera, J.A.; Dutra, B.; Köppe, M.; Moreinis, S.; Pinto, G.; Wu, J.; Comput. Geom. 46 (2013), no. 3, 232-252
- Testing the functional equation of a high-degree Euler product*, Farmer, David W.; Ryan, Nathan C.; Schmidt, Ralf; Pacific J. Math. 253 (2011), no. 2, 349-366 MR2878814
- Asymptotic improvements to the lower bound of certain bipartite Turán numbers*, Ball, Simeon; Pepe, Valentina; Combin. Probab. Comput. 21 (2012), no. 3, 323-329 MR2912785
- Integer-valued definable functions*, Wilkie, A. J.; Jones, G. O.; Thomas, M. E. M.; Manchester Institute for Mathematical Sciences (MIMS)MIMS EPrint: 2012.1 MR3007661
- On the stable set of associated prime ideals of a monomial ideal*, Bayati, Shamila; Herzog, Jürgen; Rinaldo, Giancarlo; Arch. Math. (Basel) 98 (2012), no. 3, 213-217 MR2897443
- On the second powers of Stanley-Reisner ideals*, Rinaldo, Giancarlo; Terai, Naoki; Yoshida, Ken-Ichi; J. Commut. Algebra 3 (2011), no. 3, 405-430 MR2826479
- Cohen-Macaulayness for symbolic power ideals of edge ideals*, Rinaldo, Giancarlo; Terai, Naoki; Yoshida, Ken-ichi; J. Algebra 347 (2011), 1-22 MR2846393
- Lattice point generating functions and symmetric cones*, Beck, Matthias; Bliem, Thomas; Braun, Benjamin; Savage, Carla D.; J. Algebraic Combin. 38 (2013), no. 3, 543-566 MR3104728
- Compositions constrained by graph Laplacian minors*, Braun, Benjamin; Davis, Robert; Doering, Jessica; Harrison, Ashley; Noll, Jenna; Taylor, Clifford; Integers 13 (2013), Paper No. A41, 22 pp MR3097155
- Emergent structures in large networks*, Aristoff, David; Radin, Charles; J. Appl. Probab. 50 (2013), no. 3, 883-888 MR3102521
- Quasirandom permutations are characterized by 4-point densities*, Král', Daniel; Pikhurko, Oleg; Geom. Funct. Anal. 23 (2013), no. 2, 570-579 MR3053756
- Filling loops at infinity in the mapping class group*, Abrams, Aaron; Brady, Noel; Dani, Pallavi; Duchin, Moon; Young, Robert; Michigan Math. J. 61 (2012), no. 4, 867-874 MR3049293
- Homological and homotopical Dehn functions are different*, Abrams, Aaron; Brady, Noel; Dani, Pallavi; Young, Robert; Proc. Natl. Acad. Sci. USA 110 (2013), no. 48, 19206-19212 MR3153947
- Linear embeddings of graphs and graph limits*, Chuangpishit, Huda; Ghandehari, Mahya; Hurshman, Matthew; Janssen, Jeannette; Kalyaniwalla, Nauzer; J. Combin. Theory Ser. B 113 (2015), 162-184 MR3343752
- The continuous spectrum in discrete series branching laws*, Harris, Benjamin; He, Hongyu; Olafsson, Gestur; Internat. J. Math. 24 (2013), no. 7, 1350049, 29 pp MR3084730
- Frobenius variant of Seshadri constants*, Musta, Mircea; Schwede, Karl A; Math. Ann. 358 (2014), no. 3-4, 861-878 MR3175143
- Semi-positivity in positive characteristics*, Patakfalvi, Zsolt; Ann. Sci. Éc. Norm. Supér. (4) 47 (2014), no. 5, 991-1025 MR3294622
- Depth of F -singularities and base change of relative canonical sheaves*, Patakfalvi, Zsolt; Schwede, Karl; J. Inst. Math. Jussieu 13 (2014), no. 1, 43-63 MR3134015
- Cartier's first theorem for Witt vectors on $Z_{n \geq 0}$* , Wickelgren, Kirsten; Algebraic topology: applications and new directions, 321-328, Contemp. Math., 620, Amer. Math. Soc., Providence, RI, 2014
- Zero forcing number, maximum nullity, and path cover number of subdivided graphs*, Catral, Minerva; Cepek, Anna; Hogben, Leslie; Huynh, My; Lazebnik, Kirill; Peters, Travis; Young, Michael; Electron. J. Linear Algebra 23 (2012), 906-922 MR3007196
- Duflo's conjecture for the branching problem to the Iwasawa AN -subgroup of a semisimple Lie group*, Liu, Gang; Math. Ann. 362 (2015), no. 1-2, 107-120 MR3343871

Eventual properties of matrices, Hogben, Leslie; Wilson, Ulrica; Electron. J. Linear Algebra 23 (2012), 953-965 MR3007199

From duality to determinants for q -TASEP and ASEP, Borodin, Alexei; Corwin, Ivan; Sasamoto, Tomohiro; Ann. Probab. 42 (2014), no. 6, 2314-2382 MR3265169

Stationary correlations for the 1D KPZ equation, Imamura, Takashi; Sasamoto, Tomohiro; J. Stat. Phys. 150 (2013), no. 5, 908-939 MR3028391

Evaluating L -functions with few known coefficients, Farmer, David W.; Ryan, Nathan C.; LMS J. Comput. Math. 17 (2014), no. 1, 245-258 MR3230868

Regularity of solutions to degenerate p -Laplacian equations, Cruz-Uribe, David; Moen, Kabe; Naibo, Virginia; J. Math. Anal. Appl. 401 (2013), no. 1, 458-478 MR3011287

Logarithmic bump conditions and the two-weight boundedness of Calderón-Zygmund operators, Cruz-Uribe, David; Reznikov, Alexander; Volberg, Alexander; Adv. Math. 255 (2014), 706-729 MR3167497

The highest lowest zero of general L -functions, Bober, Jonathan; Conrey, J. Brian; Farmer, David W.; Fujii, Akio; Koutsoliotas, Sally; Lemurell, Stefan; Rubinstein, Michael; Yoshida, Hiroyuki; J. Number Theory 147 (2015), 364-373 MR3276330

Period functions and cotangent sums, Bettin, Sandro; Conrey, Brian; Algebra Number Theory 7 (2013), no. 1, 215-242 MR3037895

Small gaps between zeros of twisted L -functions, Conrey, J. B.; Iwaniec, H.; Soundararajan, K.; Acta Arith. 155 (2012), no. 4, 353-371 MR2997575

A recursion formula for moments of derivatives of random matrix polynomials, Altu, S. Ali; Bettin, Sandro; Petrow, Ian; Rishikesh; Whitehead, Ian; Q. J. Math. 65 (2014), no. 4, 1111-1125 MR3285763

On the orthogonal symmetry of L -functions of a family of Hecke Grössencharacters, Conrey, J. B.; Snaith, N. C.; Acta Arith. 157 (2013), no. 4, 323-356 MR3019420

Topological graph clustering with thin position, Johnson, Jesse; Geom. Dedicata 169 (2014), 165-173 MR3175242

Failure of the Weierstrass preparation theorem in quasi-analytic Denjoy-Carleman rings, Acquistapace, Francesca; Broglia, Fabrizio; Bronshtein, Michail; Nicoara, Andreea; Zobin, Nahum; Adv. Math. 258 (2014), 397-413 MR3190431

Uniform rectifiability and harmonic measure III: Riesz transform bounds imply uniform rectifiability of boundaries of 1-sided NTA domains, Hofmann, Steve; Martell, José Mara; Mayboroda, Svitlana; Int. Math. Res. Not. IMRN 2014, no. 10, 2702-2729 MR3214282

Maass forms on $GL(3)$ and $GL(4)$, Farmer, David W.; Koutsoliotas, Sally; Lemurell, Stefan; Int. Math. Res. Not. IMRN 2014, no. 22, 6276-6301 MR3283005

A widely applicable Bayesian information criterion, Watanabe, Sumio; J. Mach. Learn. Res. 14 (2013), 867-897 MR3049492

Geometry of higher-order Markov chains, Sturmfels, Bernd; J. Algebr. Stat. 3 (2012), no. 1, 1-10 MR3016418

2013

Positivity of Toeplitz determinants formed by rising factorial series and properties of related polynomials, Karp, D. B.; Zap. Nauchn. Sem. S.-Peterburg. Otdel. Mat. Inst. Steklov. (POMI) 404 (2012), Analiticheskaya Teoriya Chisel i Teoriya Funktsii. 27, 184-198, 262-263; translation in J. Math. Sci. (N. Y.) 193 (2013), no. 1, 106-114 MR3029600

The generalized Laguerre inequalities and functions in the Laguerre-Pólya class, Csordas, George; Vishnyakova, Anna; Cent. Eur. J. Math. 11 (2013), no. 9, 1643-1650 MR3071931

The isomorphism relation for separable C^ -algebras*, Elliott, George A.; Farah, Ilijas; Paulsen, Vern I.; Rosenthal, Christian; Toms, Andrew S.; Törnquist, Asger; Math. Res. Lett. 20 (2013), no. 6, 1071-1080

Sharp distortion growth for bilipschitz extension of planar maps, Kovalev, Leonid V.; Conform. Geom. Dyn. 16 (2012), 124-131 MR2910744

The double ramification cycle and the theta divisor, Grushevsky, Samuel; Zakharov, Dmitry; Proc. Amer. Math. Soc. 142 (2014), no. 12, 4053-4064 MR3266977

The zero section of the universal semiabelian variety and the double ramification cycle, Grushevsky, Samuel; Zakharov, Dmitry; Duke Math. J. 163 (2014), no. 5, 953-982 MR3189435

Classification of integral modular categories of Frobenius-Perron dimension $pq4$ and $p2q2$, Bruillard, Paul; Galindo, César; Hong, Seung-Moon; Kashina, Yevgenia; Naidu, Deepak; Natale, Sonia; Plavnik, Julia Yael; Rowell, Eric C.; Canad. Math. Bull. 57 (2014), no. 4, 721-734

Cyclic extensions of fusion categories via the Brauer-Picard groupoid, Grossman, Pinhas; Jordan, David; Snyder, Noah; Quantum Topol. 6 (2015), no. 2, 313-331 MR3354332

The classification of subfactors of index at most 5, Jones, Vaughan F. R.; Morrison, Scott; Snyder, Noah; Bull. Amer. Math. Soc. (N.S.) 51 (2014), no. 2, 277-327 MR3166042

An obstruction to subfactor principal graphs from the graph planar algebra embedding theorem, Morrison, Scott; Bull. Lond. Math. Soc. 46 (2014), no. 3, 600-608 MR3210716

Constructing spoke subfactors using the jellyfish algorithm, Morrison, Scott; Penneys, David; Trans. Amer. Math. Soc. 367 (2015), no. 5, 3257-3298 MR3314808

The little desert? Some subfactors with index in the interval $(5, 3 + \sqrt{5})$, Morrison, Scott; Peters, Emily; Internat. J. Math. 25 (2014), no. 8, 1450080, 51 pp

Infinitesimal invariants for cycles modulo algebraic equivalence and 1-cycles on Jacobians, Voisin, Claire; Algebr. Geom. 1 (2014), no. 2, 140-165 MR3238109

Exact solution of the six-vertex model with domain wall boundary conditions: critical line between disordered and antiferroelectric phases, Bleher, Pavel; Bothner, Thomas; Random Matrices Theory Appl. 1 (2012), no. 4, 1250012, 43 pp MR3039373

Tail decay for the distribution of the endpoint of a directed polymer, Bothner, Thomas; Liechty, Karl; Nonlinearity 26 (2013), no. 5, 1449-1472 MR3056134

Phase transitions and equilibrium measures in random matrix models, Martinez-Finkelshtein, A.; Orive, R.; Rakhmanov, E. A.; Comm. Math. Phys. 333 (2015), no. 3, 1109-1173 MR3302630

Strong asymptotics of the orthogonal polynomials with respect to a measure supported on the plane, Balogh, Ferenc; Bertola, Marco; Lee, Seung-Yeop; McLaughlin, Kenneth D. T-R; Comm. Pure Appl. Math. 68 (2015), no. 1, 112-172 MR3280250

The Dehn functions of $Out(F_n)$ and $Aut(F_n)$, Bridson, Martin R.; Vogtmann, Karen; Ann. Inst. Fourier (Grenoble) 62 (2012), no. 5, 1811-1817

Cheeger constants and L^2 -Betti numbers, Bowen, Lewis; Duke Math. J. 164 (2015), no. 3, 569-615

On the log discrepancies in toric Mori contractions, Alexeev, Valery; Borisov, Alexander; Proc. Amer. Math. Soc. 142 (2014), no. 11, 3687-3694 MR3251710

Singularities with the highest Mather minimal log discrepancy, Ishii, Shihoko; Reguera, Ana J.; Math. Z. 275 (2013), no. 3-4, 1255-1274 MR3127058

Survey article: Characterizations of the Saito-Kurokawa lifting, Farmer, David W.; Pitale, Ameya; Ryan, Nathan C.; Schmidt, Ralf; Rocky Mountain J. Math. 43 (2013), no. 6, 1747-1757 MR3178443

Gaussian beam methods for the Helmholtz equation, Liu, Hailiang; Ralston, James; Runborg, Olof; Tanushev, Nicolay M.; SIAM J. Appl. Math. 74 (2014), no. 3, 771-793 MR3215069

- The index of a threefold canonical singularity*, Kawakita, Masayuki; Amer. J. Math. 137 (2015), no. 1, 271-280 MR3318092
- Ideal-adic semi-continuity of minimal log discrepancies on surfaces*, Kawakita, Masayuki; Michigan Math. J. 62 (2013), no. 2, 443-447 MR3079272
- Symmetries and stabilization for sheaves of vanishing cycles*, Brav, C.; Bussi, V.; Dupont, D.; Joyce, D.; Szendrői, B.; With an appendix by Jörg Schürmann. J. Singul. 11 (2015), 85-151 MR3353002
- Naive motivic Donaldson-Thomas type Hirzebruch classes and some problems*, Bussi, Vittoria; Yokura, Shoji; J. Singul. 10 (2014), 26-53 MR3300284
- Bounding the dimensions of rational cohomology groups*, Bendel, Christopher P.; Boe, Brian D.; Drupieski, Christopher M.; Nakano, Daniel K.; Parshall, Brian J.; Pillen, Cornelius; Wright, Caroline B.; Developments and retrospectives in Lie theory, 51-69, Dev. Math. 38, Springer, Cham, 2014 MR3308777
- Extensions for finite Chevalley groups III: Rational and generic cohomology*, Bendel, Christopher P.; Nakano, Daniel K.; Pillen, Cornelius; Adv. Math. 262 (2014), 484-519 MR3228435
- On a Sumset Conjecture of Erdős*, Di Nasso, Mauro; Goldbring, Isaac; Jin, Renling; Leth, Steven; Lupini, Martino; Mahlburg, Karl; Canad. J. Math. 67 (2015), no. 4, 795-809 MR3361013
- Loose Legendrians and the plastikstufe*, Murphy, Emmy; Niederkrüger, Klaus; Plamenevskaya, Olga; Stipsicz, András I.; Geom. Topol. 17 (2013), no. 3, 1791-1814 MR3073936
- Holomorphic cubic differentials and minimal Lagrangian surfaces in CH^2* , Huang, Zheng; Loftin, John; Lucia, Marcello; Math. Res. Lett. 20 (2013), no. 3, 501-520
- The discriminant and oscillation lengths for contact and Legendrian isotopies*, Colin, Vincent; Sandon, Sheila; J. Eur. Math. Soc. (JEMS) 17 (2015), no. 7, 1657-1685 MR3361726
- Variable selection and sensitivity analysis using dynamic trees, with an application to computer code performance tuning*, Gramacy, Robert B.; Taddy, Matt; Wild, Stefan M.; Ann. Appl. Stat. 7 (2013), no. 1, 51-80 MR3086410
- Polarization optimality of equally spaced points on the circle for discrete potentials*, Hardin, Douglas P.; Kendall, Amos P.; Saff, Edward B.; Discrete Comput. Geom. 50 (2013), no. 1, 236-243 MR3070548
- Riesz polarization inequalities in higher dimensions*, Erdélyi, Tamás; Saff, Edward B.; J. Approx. Theory 171 (2013), 128-147 MR3053720
- High density piecewise syndeticity of sumsets*, Di Nasso, Mauro; Goldbring, Isaac; Jin, Renling; Leth, Steven; Lupini, Martino; Mahlburg, Karl; Adv. Math. 278 (2015), 1-33 MR3341782
- Microlocal analysis of an ultrasound transform with circular source and receiver trajectories*, Ambartsoumian, G.; Boman, J.; Krishnan, V. P.; Quinto, E. T.; Geometric analysis and integral geometry, 45-58. Contemp. Math., 598, Amer. Math. Soc., Providence, RI, 2013 MR3156437
- A class of singular Fourier integral operators in synthetic aperture radar imaging*, Ambartsoumian, Gaik; Felea, Raluca; Krishnan, Venkateswaran P.; Nolan, Clifford; Quinto, Eric Todd; J. Funct. Anal. 264 (2013), no. 1, 246-269 MR2995706
- Note on Nordhaus-Gaddum problems for Colin de Verdière type parameters*, Barrett, Wayne; Fallat, Shaun M.; Hall, H. Tracy; Hogben, Leslie; Electron J. Combin. 20 (2013), no. 3, Paper 56, 9 pp MR3118964
- Minimum rank, maximum nullity, and zero forcing number of simple digraphs*, Berliner, Adam; Catral, Minerva; Hogben, Leslie; Huynh, My; Lied, Kelsey; Young, Michael; Electron. J. Linear Algebra 26 (2013), 762-780 MR3141806
- The maximum nullity of a complete subdivision graph is equal to its zero forcing number*, Barrett, Wayne; Butler, Steve; Catral, Minerva; Fallat, Shaun M.; Hall, H. Tracy; Hogben, Leslie; Young, Michael; Electron. J. Linear Algebra 27 (2014), 444-457 MR3240025

Minimum rank with zero diagonal, Groom, Cheryl; Harmse, Johannes; Hogben, Leslie; Hunter, Thomas J.; Jacob, Bonnie; Klimas, Andrew; McCathern, Sharon; Electron. J. Linear Algebra 27 (2014), 458-477 MR3240026

A generalized topological recursion for arbitrary ramification, Bouchard, Vincent; Hutchinson, Joel; Loliencar, Prachi; Meiers, Michael; Rupert, Matthew; Ann. Henri Poincaré 15 (2014), no. 1, 143-169 MR3147410

All order asymptotics of hyperbolic knot invariants from non-perturbative topological recursion of A-polynomials, Borot, Gatan; Eynard, Bertrand; Quantum Topol. 6 (2015), no. 1, 39-138 MR3335006

Abstract loop equations, topological recursion and new applications, Borot, Gatan; Eynard, Bertrand; Orantin, Nicolas; Commun. Number Theory Phys. 9 (2015), no. 1, 51-187 MR3339853

Mirror symmetry for orbifold Hurwitz numbers, Bouchard, Vincent; Hernández Serrano, Daniel; Liu, Xiaojun; Mulase, Motohico; J. Differential Geom. 98 (2014), no. 3, 375-423 MR3263522

Fermionic gluing principle of the topological vertex, Deng, Fusheng; Zhou, Jian; J. High Energy Phys. 2012, no. 6, 166, front matter+26 pp MR3006827

Quantum curves for Hitchin fibrations and the Eynard-Orantin theory, Dumitrescu, Olivia; Mulase, Motohico; Lett. Math. Phys. 104 (2014), no. 6, 635-671 MR3200933

The spectral curve of the Eynard-Orantin recursion via the Laplace transform, Dumitrescu, Olivia; Mulase, Motohico; Safnuk, Brad; Sorkin, Adam; Algebraic and geometric aspects of integrable systems and random matrices, 263-315, Contemp. Math., 593, Amer. Math. Soc., Providence, RI, 2013 MR3087960

Invariants of spectral curves and intersection theory of moduli spaces of complex curves, Eynard, B.; Commun. Number Theory Phys. 8 (2014), no. 3, 541-588 MR3282995

Computation of open Gromov-Witten invariants for toric Calabi-Yau 3-folds by topological recursion, a proof of the BKMP conjecture, Eynard, B.; Orantin, N.; Comm. Math. Phys. 337 (2015), no. 2, 483-567 MR3339157

Topological recursion for the Poincaré polynomial of the combinatorial moduli space of curves, Mulase, Motohico; Penkava, Michael; Adv. Math. 230 (2012), no. 3, 1322-1339 MR2921181

The spectral curve and the Schrödinger equation of double Hurwitz numbers and higher spin structures, Mulase, M.; Shadrin, S.; Spitz, L.; Commun. Number Theory Phys. 7 (2013), no. 1, 125-143 MR3108774

Path cover number, maximum nullity, and zero forcing number of oriented graphs and other simple digraphs, Berliner, Adam; Brown, Cora; Carlson, Joshua; Cox, Nathanael; Hogben, Leslie; Hu, Jason; Jacobs, Katrina; Manternach, Kathryn; Peters, Travis; Warnberg, Nathan; Young, Michael; Involve 8 (2015), no. 1, 147-167 MR3321717

2014

Singular Hopf bifurcation in a differential equation with large state-dependent delay, Kozyreff, G.; Erneux, T.; Proc. R. Soc. Lond. Ser. A Math. Phys. Eng. Sci. 470 (2014), no. 2162, 20130596, 16 pp MR3151772

In support of n -correlation, Conrey, J. B.; Snaith, N. C.; Comm. Math. Phys. 330 (2014), no. 2, 639-653 MR3223483

Discrete branching laws for minimal holomorphic representations, Möllers, Jan; Oshima, Yoshiki; J. Lie Theory 25 (2015), no. 4, 949-983 MR3345043

Unirational threefolds with no universal codimension 2 cycle, Voisin, Claire; Invent. Math. 201 (2015), no. 1, 207-237 MR3359052

Powers of square-free monomial ideals and combinatorics, Francisco, Christopher A.; H, Huy Ti; Mermin, Jeffrey; Commutative algebra, 373-392, Springer, New York, 2013 MR3051379

Componentwise regularity (I), Caviglia, Giulio; Varbaro, Matteo; J. Pure Appl. Algebra 219 (2015), no. 1, 175-182 MR3240831

On the associated primes and the depth of the second power of squarefree monomial ideals, Terai, Naoki; Trung, Ngo Viet; J. Pure Appl. Algebra 218 (2014), no. 6, 1117-1129 MR3153618

Uniform hyperbolicity of the curve graph via surgery sequences, Clay, Matt; Rafi, Kasra; Schleimer, Saul; Algebr. Geom. Topol. 14 (2014), no. 6, 3325-3344 MR3302964

An algorithm to detect full irreducibility by bounding the volume of periodic free factors, Clay, Matt; Mangahas, Johanna; Pettet, Alexandra; Michigan Math. J. 64 (2015), no. 2, 279-292 MR3359026

Translated chemical reaction networks, Johnston, Matthew D.; Bull. Math. Biol. 76 (2014), no. 5, 1081-1116 MR3201336

A global convergence result for processive multisite phosphorylation systems, Conradi, Carsten; Shiu, Anne; Bull. Math. Biol. 77 (2015), no. 1, 126-155 MR3303108

Poset embeddings of Hilbert functions and Betti numbers, Caviglia, Giulio; Kummini, Manoj; J. Algebra 410 (2014), 244-257 MR3201052

Weyl character formula in KK-theory, Block, Jonathan; Higson, Nigel; Noncommutative geometry and physics. 3, 299-334, Keio COE Lect. Ser. Math. Sci., 1, World Sci. Publ., Hackensack, NJ, 2013 MR3098596

Interface problems for dispersive equations, Sheils, Natalie E.; Deconinck, Bernard; Stud. Appl. Math. 134 (2015), no. 3, 253-275 MR3322696

Well-posedness for the BBM-equation in a quarter plane, Bona, Jerry L.; Chen, Hongqiu; Hsia, Chun-Hsiung; Discrete Contin. Dyn. Syst. Ser. S 7 (2014), no. 6, 1149-1163 MR3228871

The KdV equation on the half-line: the Dirichlet to Neumann map, Lenells, Jonatan; J. Phys. A 46 (2013), no. 34, 345203, 20 pp MR3101682

The principal rank characteristic sequence over various fields, Barrett, Wayne; Butler, Steve; Catral, Minerva; Fallat, Shaun M.; Hall, H. Tracy; Hogben, Leslie; van den Driessche, P.; Young, Michael; Linear Algebra Appl. 459 (2014), 222-236 MR3247224

3-by-3 matrices with elliptical numerical range revisited, Rault, Patrick X.; Sendova, Tsvetanka; Spitkovsky, Ilya M.; Electron. J. Linear Algebra 26 (2013), 158-167 MR3065855

Sandpiles, spanning trees, and plane duality, Chan, Melody; Glass, Darren; Macauley, Matthew; Perkinson, David; Werner, Caryn; Yang, Qiaoyu; SIAM J. Discrete Math. 29 (2015), no. 1, 461-471 MR3319526

Critical groups of graphs with dihedral actions, Glass, Darren B.; Merino, Criel; European J. Combin. 39 (2014), 95-112 MR3168517

Threshold state and a conjecture of Poghosyan, Poghosyan, Priezzhev and Ruelle, Levine, Lionel; Comm. Math. Phys. 335 (2015), no. 2, 1003-1017 MR3316648

Computing Néron-Severi groups and cycle class groups, Poonen, Bjorn; Testa, Damiano; van Luijk, Ronald; Compos. Math. 151 (2015), no. 4, 713-734 MR3334893

Chip-firing and energy minimization on M-matrices, Guzmán, Johnny; Klivans, Caroline; J. Combin. Theory Ser. A 132 (2015), 14-31 MR3311336

The regularity problem for second order elliptic operators with complex-valued bounded measurable coefficients, Hofmann, Steve; Kenig, Carlos; Mayboroda, Svitlana; Pipher, Jill; Math. Ann. 361 (2015), no. 3-4, 863-907 MR3319551

Representing Scott sets in algebraic settings, Dolich, Alf; Knight, Julia F.; Lange, Karen; Marker, David; Arch. Math. Logic 54 (2015), no. 5-6, 631-637 MR3372612

An algebraic characterization of injectivity in phase retrieval, Conca, Aldo; Edidin, Dan; Hering, Milena; Vinzant, Cynthia; Appl. Comput. Harmon. Anal. 38 (2015), no. 2, 346-356 MR3303679

Ruling polynomials and augmentations over finite fields, Henry, Michael B.; Rutherford, Dan; J. Topol. 8 (2015), no. 1, 1-37 MR3335247

Minimum rank of graphs with loops, Bozeman, Chassidy; Ellsworth, AnnaVictoria; Hogben, Leslie; Lin, Jephian Chin-Hung; Maurer, Gabi; Nowak, Kathleen; Rodriguez, Aaron; Strickland, James; Electron. J. Linear Algebra 27 (2014), 907-934 MR3312067

Local cohomology modules of a smooth $\mathbb{Z}$ -algebra have finitely many associated primes, Bhatt, Bhargav; Blickle, Manuel; Lyubeznik, Gennady; Singh, Anurag K.; Zhang, Wenliang; Invent. Math. 197 (2014), no. 3, 509-519

A heuristic for the distribution of point counts for random curves over finite field, Achter, Jeffrey D.; Erman, Daniel; Kedlaya, Kiran S.; Wood, Melanie Matchett; Zureick-Brown, David; Philos. Trans. A 373 (2015), no. 2040, 20140310, 12 pp MR3338118

Positive polynomials in scalar and matrix variables, the spectral theorem, and optimization, Helton, J. William; Putinar, Mihai; Operator theory, structured matrices, and dilations, 229-306, Theta Ser. Adv. Math., 7, Theta, Bucharest, 2007 MR2389626

The Brenner-Hochster-Kollár and Whitney problems for vector-valued functions and jets, Fefferman, Charles; Luli, Garving K.; Rev. Mat. Iberoam. 30 (2014), no. 3, 875-892 MR3254995

Levels of distribution and the affine sieve, Kontorovich, Alex; Ann. Fac. Sci. Toulouse Math. (6) 23 (2014), no. 5, 933-966 MR3294598

2015

Approximating the inverse of banded matrices by banded matrices with applications to probability and statistics, Bickel, P.; Lindner, M.; Teor. Veroyatn. Primen. 56 (2011), no. 1, 100-122; translation in Theory Probab. Appl. 56 (2012), no. 1, 1-20 MR2848418

Bounded gaps between primes in number fields and function fields, Castillo, Abel; Hall, Chris; Lemke Oliver, Robert J.; Pollack, Paul; Thompson, Lola; Proc. Amer. Math. Soc. 143 (2015), no. 7, 2841-2856 MR3336609

Moments of zeta functions associated to hyperelliptic curves over finite fields, Rubinstein, Michael O.; Wu, Kaiyu; Philos. Trans. A 373 (2015), no. 2040, 20140307, 37 pp MR3338121

Arithmetic functions at consecutive shifted primes, Pollack, Paul; Thompson, Lola; Int. J. Number Theory 11 (2015), no. 5, 1477-1498 MR3376222

A frame theoretic approach to the nonuniform fast Fourier transform, Gelb, Anne; Song, Guohui; SIAM J. Numer. Anal. 52 (2014), no. 3, 1222-1242 MR3209727

Disjoint edges in topological graphs and the tangled-thrackle conjecture, Ruiz-Vargas, Andres J.; Suk, Andrew; Tóth, Csaba D.; Graph drawing, 284-293 MR3333234

Intersection multiplicity of Serre in the unramified case, Skalit, Chris; J. Algebra 428 (2015), 91-121 MR3314287

Windings of the stable Kolmogorov process, Profeta, Christophe; Simon, Thomas; ALEA Lat. Am. J. Probab. Math. Stat. 12 (2015), no. 1, 115-127 MR3340374

Conditional persistence of Gaussian random walks, Gao, Fuchang; Liu, Zhenxia; Yang, Xiangfeng; Electron Commun. Probab. 19 (2014), no. 70, 9 pp MR3269170

Dualité et principe local-global pour les tores sur une courbe au-dessus de $\mathbb{C}((t))$, Colliot-Thélène, Jean-Louis; Harari, David; Proc. Lond. Math. Soc. (3) 110 (2015), no. 6, 1475-1516