

PUBLICATIONS

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Books

An introduction to random matrices,
Cambridge studies in advanced mathematics **118**,
Cambridge University Press, 2010. (ISBN-978-0-521-19452-5)
(Joint with Alice Guionnet and Ofer Zeitouni.)

Book chapters

Chapter 4: Spectral statistics I: Unitary ensembles, in: Akemann, G., Baik, J. and di Francesco, P. (editors), Oxford Handbook on Random Matrix Theory, Oxford University Press 2011 (ISBN 978-0-19-957400-1)

Articles in refereed journals

- (1) *Convergence of the largest singular value of a polynomial in independent Wigner matrices*, Annals of Probability, to appear.
- (2) *Multizeta values for $\mathbb{F}_q[t]$, their period interpretation and relations between them*, Int. Math. Res. Not. IMRN 2009, no. 11, 2038–2055. (joint with Dinesh Thakur)
- (3) *A law of large numbers for finite range dependent random matrices*, Comm. Pure Appl. Math. **61**(2008), no. 8, 1118–1154. (joint with Ofer Zeitouni)
- (4) *A CLT for regularized sample covariance matrices*, Annals of Statistics **36**(2008), No. 6, 2553–2576. (joint with Ofer Zeitouni)
- (5) *Interpolation of hypergeometric ratios in a global field of positive characteristic*, Ann. Inst. Fourier **57**(2007)1655–1687.
- (6) *Interpolation of numbers of Catalan type in a local field of positive characteristic*, J. reine angew. Math. **609**(2007)81–136.
- (7) *Digit patterns and the formal additive group*. Israel J. Math. **161**(2007), 125–139.
- (8) *A two-variable refinement of the Stark conjecture in the function field case*, Compos. Math. **142**(2006)563–615.
- (9) *A CLT for a band matrix model*. Probability Theory and Related Fields, **134**(2006), 283–338. (joint with Ofer Zeitouni)
- (10) *Lacunary Wronskians on genus one curves*, Journal of Number Theory **115**(2005)197–214.

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- (11) *A pinching estimate for solutions of the linearized Ricci flow system on 3-manifolds*, Calc. Var. Partial Differential Equations **23**(2005), 1–12. (joint with Ben Chow)
- (12) *Determination of the algebraic relations among special Γ -values in positive characteristic*. Annals of Math. **160**(2004)239-315. (joint with W. Dale Brownawell and Matthew A. Papanikolas)
- (13) *A generalization of Weyl's identity for D_n* , Adv. in Appl. Math. **33**(2004)573-614
- (14) *Edited 4Θ -embeddings of Jacobians*, Michigan Math. J. **52**(2004), 309-340.
- (15) *Simple proofs of classical explicit reciprocity laws on curves using determinant groupoids over an artinian local ring.*, Communications in Algebra **32**(2004)79-102. (joint with Fernando Pablos Romo)
- (16) *Integral Kashiwara splittings*. Israel J. Math. **138**(2003), 139-156.
- (17) *A note on cyclotomic Euler systems and the double complex method*. Canad. J. Math. **55**(2003)673-692. (joint with Yi Ouyang)
- (18) *Abelians and their application to an elementary construction of Jacobians*. Advances in Math. **172**(2002)169–205.
- (19) *Kronecker-Weber plus epsilon*. Duke Math. J. **114**(2002)439–475.
- (20) *An elementary approach to L -functions mod p* . J. Number Theory **80**(2000)291–303.
- (21) *A double complex for computing the sign-cohomology of the universal ordinary distribution*. Contemp. Math. **224**(1999)1–27.
- (22) *An explicit algebraic representation of the Abel map*. Intl. Math. Res. Notices 1997, No. 11, 495–521.
- (23) *Log-algebraicity of twisted A -harmonic series and special values of L -series in characteristic p* . J. Number Theory **60**(1996)165–209.
- (24) *Another look at the index formulas of cyclotomic number theory*. J. Number Theory **60**(1996)142–164.
- (25) *On representations of the Weil group with bounded conductor*. Forum Math. **6**(1994)537–545. (joint with D. Blasius, R. Coleman, and G. Zettler)
- (26) *Torsion points on Jacobians of quotients of Fermat curves and p -adic soliton theory*. Invent. Math. **118**(1994)475–492.
- (27) *Rank one elliptic A -modules and A -harmonic series*. Duke Math. J. **73**(1994)491–542.
- (28) *On Tate modules of formal t -modules*. (Duke) Intl. Math. Res. Notices 1993, No. 2, pp. 41–52.
- (29) *A two-dimensional analogue of Stickelberger's theorem*. in: The Arithmetic of function fields (D. Goss, D. R. Hayes, M. I. Rosen, eds.), pp. 51–77, W. de Gruyter, Berlin New York 1992.
- (30) *Local factorization of determinants of twisted DR cohomology groups*. Compositio Math. **83**(1992)69–105.
- (31) *A short proof of Selberg's generalized beta formula*. Forum Math. **3**(1991)415–417.
- (32) *Pro- ℓ branched coverings of \mathbf{P}^1 and higher circular ℓ -units. Part 2*. Intl. J. Math. **1**(1990)119–148. (joint with Y. Ihara)
- (33) *The evaluation of Selberg sums*. C. R. Acad. Sci. Paris **311** (Série I, 1990)469–472.

- (34) *Tensor powers of the Carlitz module and zeta values.* Annals of Math. **132**(1990)159–191. (joint with D. Thakur)
- (35) *Normalization of the hyperadelic gamma function.* in: Y. Ihara, K. Ribet, J.-P. Serre (eds.), Galois Groups over \mathbf{Q} (Proceedings of a workshop held March 23-27, 1987). Springer, New York, 1989.
- (36) *The hyperadelic gamma function.* Invent. Math. **95**(1989)63–131.
- (37) *Rationality in conformal field theory.* Commun. Math. Phys. **117**(1988)441–450 (joint with G. Moore)
- (38) *Pro- ℓ branched coverings of \mathbf{P}^1 and higher circular ℓ -units.* Annals of Math. **128**(1988)271–293. (joint with Y. Ihara)
- (39) *On a question arising from complex multiplication theory.* Adv. Stud. Pure Math. **12**(1987)221–234.
- (40) *The hyperadelic gamma function: a précis.* Adv. Stud. Pure Math. **12**(1987)1–19.
- (41) *Torsion points on Fermat Jacobians, roots of circular units and relative singular homology.* Duke Math. J. **54**(1987)501–561. (Volume dedicated to Yu. I. Manin)
- (42) *t -motives.* Duke Math. J. **53**(1986)457–502.
- (43) *Cyclotomy and an extension of the Taniyama group.* Compositio Math. **57**(1986)153–217.
- (44) *On primes of degree one in function fields.* Proc. AMS **94**(1985)31–33. (joint with R. Indik)
- (45) *Theta functions and holomorphic differential forms on compact quotients of bounded symmetric domains.* Duke Math. J. **50**(1983)1137–1170. (my thesis)
- (46) *Logarithmic derivatives of Dirichlet L -functions and the periods of abelian varieties.* Compositio Math. **45**(1982)315–332.

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