

Professor Jens Marklof FRS

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Appointments

- 2023–25 President of the London Mathematical Society
- 2018–23 Dean of the Faculty of Science, University of Bristol
- 2016–18 Head of the School of Mathematics, University of Bristol
- 2005– Professor of Mathematical Physics, School of Mathematics, University of Bristol
- 2002–05 Reader in Mathematical Physics, School of Mathematics, University of Bristol
- 2001–06 EPSRC Advanced Research Fellow
- 1999–02 Lecturer in Applied Mathematics, School of Mathematics, University of Bristol
- 1998–99 Marie Curie Fellow, Institut des Hautes Études Scientifique, Bures-sur-Yvette and Laboratoire de Physique Théorique et Modèles Statistiques, Orsay
- 1997–99 Fellow of the European Post-Doctoral Institute for the Mathematical Sciences
- 1997 EPSRC Senior Visiting Fellow, Isaac Newton Institute, Cambridge
- 1997 Consultant, BRIMS, Hewlett-Packard Laboratories, Bristol
- 1996–97 Research Associate, Abteilung Theoretische Physik, Universität Ulm
- 1995–96 Visiting Fellow, Department of Mathematics, Princeton University
- 1994–94 Research Associate, II. Institut für Theoretische Physik, Universität Hamburg

Education

- 1997 Dr. rer. nat. “with distinction”, Universität Ulm (Advisor: Frank Steiner)
- 1994 Dipl.-Phys. “with distinction”, Universität Hamburg

Major Awards and Honours

- 2022–23 Royal Society Yusuf Hamied Visiting Professor, Tata Institute Mumbai
- 2015 Election as Fellow of the Royal Society
- 2012–17 ERC Advanced Grant
- 2010–12 Leverhulme Trust Research Fellowship
- 2010 Whitehead Prize, London Mathematical Society
- 2009–14 Royal Society Wolfson Research Merit Award
- 2004 Marie Curie Excellence Award, European Commission
- 2004 Philip Leverhulme Prize in Mathematics and Statistics
- 2001–06 EPSRC Advanced Research Fellowship
- 1997–99 Fellowship of the European Post-Doctoral Institute for the Mathematical Sciences
- 1997 Promotionspreis der Ulmer Universitätsgesellschaft
- 1995–96 Gottlieb Daimler and Karl Benz Fellowship

Selected Distinguished Lectures

- 2023 The Infosys Chandrasekharan Random Geometry Lecture Series, TIFR Mumbai
- 2022 Plenary Speaker, QMATH15, UC Davis
- 2022 Distinguished Lecture, Faculty of Science, Hong Kong University
- 2019 Invited Speaker, 13th National Congress of the Chinese Mathematical Society, Guangzhou
- 2016 Lewis Fry Richardson Lecture, University of York
- 2014 Invited Speaker, International Congress of Mathematicians, Seoul
- 2013 Simons Lectures, SUNY Stony Brook

2012 Essén Lectures, Uppsala University
 2009 Plenary Speaker, International Congress of Mathematical Physics, Prague
 2007 Morning Speaker, British Mathematics Colloquium, Swansea
 2005 The Center for Dynamics and Geometry Lecture Series, Penn State University
 2005 Les Rencontres Mathématiques, Ecole Normale Supérieure, Lyon
 2000 German-American Frontiers of Science, National Academy of Sciences, Irvine CA
 2000 Invited Speaker, European Congress of Mathematics, Barcelona

Editorial Boards

2016– Associate Editor, Annales Henri Poincaré
 2016–20 Editorial Board, Communications in Mathematical Physics
 2011–13 Editorial Board, Nonlinearity
 2006–17 Editorial Board, Journal of Modern Dynamics
 2003–16 Section Editor (Quantum Chaos), Annales Henri Poincaré

Research Grants

2022–25	EPSRC	£360,754	Spectral statistics for random hyperbolic surfaces
2019–23	EPSRC	£639,743	Wave transport in low-density matter, Siegel theta functions, and homogeneous flows
2012–17	ERC	€1,339,620	Homogeneous flows and their application in kinetic theory
2010–12	Leverhulme	£44,489	New kinetic transport equations for crystals
2006–12	RCUK	£250,000	Dynamical systems and number theory (Co-I) (fellowships held by A. Gorodnik and C. Ulcigrai)
2005–08	EPSRC	£156,373	Long time limit of chaotic quantum dynamics
2004–07	EPSRC	£134,594	Series summation and random continued fractions (Co-I)
2003–04	EPSRC	£10,199	Number-theoretic aspects of quantum chaos
2003–04	Leverhulme	£40,000	Visiting Professorship for Z. Rudnick, Tel Aviv University
2001–06	EPSRC	£214,591	Equidistribution, exponential sums and quantum chaos
2001–04	EPSRC	£56,145	Semiclassical dynamics of nonuniformly hyperbolic maps
2001–03	Royal Society	£9,859	Quantum unique ergodicity
2001–03	Nuffield	£4,000	Energy level statistics and quantum chaos
2000–04	Marie Curie	€1,200,000	Mathematical aspects of quantum chaos (Co-I)
1998–99	Marie Curie		n -point correlations in the spectrum of the Laplacian
1997–99	EPDI		research fellowship
1995–96	Daimler-Benz	DM 24,400	research fellowship

Invited Research Visits

2023 4 weeks, Tata Institute for Fundamental Research, Mumbai, India
 2021 2 weeks, Mittag-Leffler Institute, Djursholm, Sweden
 2020 2 weeks, Hausdorff Institute, Bonn, Germany
 2019 1 week, Hausdorff Institute, Bonn, Germany
 2018 1 week, Department of Mathematics, Uppsala Universitet, Sweden
 2017 1 week, Department of Mathematics, Uppsala Universitet, Sweden
 1 week, Mathematisches Forschungsinstitut, Oberwolfach, Germany
 2015 1 week, Mathematical Sciences Research Institute, Berkeley, USA
 6 months, Isaac Newton Institute, Cambridge, U.K.
 2014 2 weeks, Max Planck Institute for Mathematics, Bonn, Germany
 3 weeks, Institut de Mathématiques de Jussieu, Paris, France
 2013 3 weeks, Institute for Advanced Study, Princeton, USA
 2012 1 week, Erwin Schrödinger Institute, Vienna, Austria
 2011 1 week, Erwin Schrödinger Institute, Vienna, Austria
 2009 1 month, Max Planck Institute for Mathematics, Bonn, Germany

- 2008 2 weeks, Erwin Schrödinger Institut, Vienna, Austria
1 week, Isaac Newton Institute, Cambridge, U.K.
- 2007 3 months, Centro De Giorgi, Scuola Normale Superiore, Pisa, Italy
- 2006 3 weeks, Institute for Advanced Study, Princeton, USA
- 2005 3 weeks, Penn State, USA
2 weeks, Centre de Recherches Mathématiques, Université de Montréal, Canada
- 2004 1 week, Department of Mathematics, Uppsala Universitet, Sweden
4 weeks, Isaac Newton Institute, Cambridge, U.K.
1 week, Instituto Superior Técnico, Lisbon, Portugal
2 weeks, Centre de Recherches Mathématiques, Université de Montréal, Canada
- 2003 1 week, Forschergruppe, Universität Bielefeld, Germany
5 weeks, Mathematical Sciences Research Institute, Berkeley, USA
2 weeks, Isaac Newton Institute, Cambridge, U.K.
- 2002 1 month, Department of Mathematics, University of Chicago, USA
1 week, Courant Institute, New York University, USA
3 weeks, Forschungsinstitut für Mathematik, ETH Zürich, Switzerland
1 week, Forschergruppe, Universität Bielefeld, Germany
- 2001 2 weeks, Forschergruppe, Universität Bielefeld, Germany
- 2000 2 weeks, Isaac Newton Institute, Cambridge, U.K.
- 1999 2 months, Mathematical Sciences Research Institute, Berkeley, USA
1 week, Hermann Minkowski Center for Geometry, Tel Aviv University, Israel
2 weeks, SFB 343 “Diskrete Strukturen in der Mathematik”, Bielefeld, Germany
- 1998 4 weeks, Hermann Minkowski Center for Geometry, Tel Aviv University, Israel
1 week, Erwin Schrödinger Institut, Austria
2 weeks, SFB 343 “Diskrete Strukturen in der Mathematik”, Bielefeld, Germany
- 1996 1 week, Institute for Mathematics and its Applications, Minneapolis, MN, USA

Major Administrative Roles at Bristol

- 2018–23 Dean of the Faculty of Science
- 2019–23 Member of University Executive Board
- 2018–23 Member of University Management Team
- 2016–23 Member of Senate
- 2016–18 Head of the School of Mathematics
- 2009–12 Director of Graduate Studies, Mathematics
- 2006–09 Committee for New Mathematics Building
- 2006–07 Coordinator of RAE2008 Pure Mathematics submission
- 2005–08 Head of Pure Mathematics

Service

- 2023–25 President, London Mathematical Society
- 2023 Leverhulme Trust Prize Committee
- 2022–24 Chair, Royal Society, Sectional Committee 1
- 2022–23 President-elect, London Mathematical Society
- 2021– Leverhulme Trust Research Awards Advisory Panel
- 2020 Leverhulme Trust Prize Committee
- 2016–20 External Advisory Board, Heilbronn Institute for Mathematical Research
- 2016 ICM 2018 Selection Panel (Dynamical Systems and ODE)
- 2015–18 Royal Society, Sectional Committee 1
- 2015 Early Career Award Committee, Intl. Association of Mathematical Physics
- 2013–18 Leverhulme Trust Advisory Panel
- 2011–14 Research Excellence Framework 2014, Subpanel Mathematics
- 2004–07 LMS Regional Organizer (South West & South Wales)
- 2002–07 Meetings Committee, London Mathematical Society
- 2002–06 IoP Mathematical and Theoretical Physics Group Committee

PhD students

- 2020–24 Zonglin Li
- 2020–24 Sam Pattison
- 2016–20 Christopher Lutsko (now Hill Assistant Professor, Rutgers University)
- 2013–17 Jory Griffin
- 2012–16 Daniel El-Baz (now Postdoctoral Researcher, University of Graz)
- 2010–14 Emek Demirci Akarsu (now Assistant Professor, Recep Tayyip Erdogan University, Turkey)
- 2006–10 Henrik Ueberschär (now Associate Professor, Sorbonne Université, Paris)
- 2004–08 David Smith (joint with R.E. Wilson)
- 2002–05 Ian Williams (joint with J.P. Keating)
- 2002–05 Christopher Wheeler (joint with J.P. Keating; now Commodities Quant, Bloomberg)
- 2001–04 Stephen O’Keefe (now Head of Finance, BT)

Postdocs

- 2020-23 Soren Mikkelsen (now Postdoc at University of Bath)
- 2019–22 Matthew Welsh (now Brin Postdoc at University of Maryland)
- 2015–17 Etienne Le Masson (now Maître de Conférences, Université Cergy-Pontoise, Paris)
- 2015–17 Nadav Yesha (now Senior Lecturer, University of Haifa)
- 2012–15 Jimmy Tseng (now Senior Lecturer, University of Exeter)
- 2012–15 Ilya Vinogradov (now in private sector)
- 2004–06 Lech Wolowski (now Priest and Theologian)
- 2003–08 Roman Schubert (now Lecturer, University of Bristol)
- 2001–02 Andreas Strömbergsson (now Professor, Uppsala University; Member, Royal Swedish Acad.)

Publications

Research papers

- [1] J. Marklof, Smallest denominators, preprint, arXiv:2310.11251
- [2] W. Kim and J. Marklof, Poissonian pair correlation for directions in multi-dimensional affine lattices, and escape of mass estimates for embedded horospheres, preprint arXiv:2302.13308
- [3] J. Marklof and A. Strömbergsson, Kinetic theory for the low-density Lorentz gas, *Memoirs of the American Mathematical Society* to appear, preprint arXiv:1910.04982
- [4] J. Marklof and M. Welsh, Bounds for theta sums in higher rank II, *Journal d’Analyse Mathématique* 151 (2023) 235-264 (Special issue dedicated to Peter Sarnak)
- [5] J. Marklof and M. Welsh, Bounds for theta sums in higher rank I, *Journal d’Analyse Mathématique* 150 (2023) 325-358
- [6] J. Marklof and M. Welsh, Fine-scale distribution of roots of quadratic congruences, *Duke Mathematical Journal* 172 (2023), no. 12, 2303-2364
- [7] A. Haynes and J. Marklof, A five distance theorem for Kronecker sequences, *International Mathematics Research Notices* 2022 (2022) 19747-19789.
- [8] J. Griffin and J. Marklof, Quantum transport in a crystal with short-range interactions: The Boltzmann-Grad limit, *Journal of Statistical Physics* 184 (2021) no. 16; 46pp
- [9] J. Marklof, Delone sets generated by square roots, *American Mathematical Monthly* 127 (2020) 836-840
- [10] J. Marklof, Pair correlation and equidistribution on manifolds, *Monatshefte für Mathematik* 191 (2020) 279-294
- [11] A. Haynes and J. Marklof, Higher dimensional Steinhaus and Slater problems via homogeneous dynamics, *Annales scientifiques de l’École normale supérieure* 53 (2020) 537-557
- [12] J. Griffin and J. Marklof, Quantum transport in a low-density periodic potential: homogenisation via homogeneous flows, *Pure and Applied Analysis* 1 (2019) 571-614
- [13] J. Marklof and N. Yesha, Pair correlation for quadratic polynomials mod 1, *Compositio Mathematica* 154 (2018) 960-983
- [14] J. Marklof and I. Vinogradov, Directions in hyperbolic lattices, *Journal für die reine und angewandte Mathematik* 740 (2018) 161-186

- [15] M. Lee and J. Marklof, Effective equidistribution of rational points on expanding horospheres, *International Mathematics Research Notices* 2018 (2018) 6581-6610
- [16] J. Marklof and A. Strömbergsson, The three gap theorem and the space of lattices, *American Mathematical Monthly* 124 (2017) 741-745
- [17] C.P. Dettmann, J. Marklof and A. Strömbergsson, Universal hitting time statistics for integrable flows, *Journal of Statistical Physics* 166 (2017) 714-749 (Special issue dedicated to David Ruelle and Ya.G. Sinai)
- [18] J. Marklof, Entry and return times for semi-flows, *Nonlinearity* 30 (2017) 810-824
- [19] J. Marklof and I. Vinogradov, Spherical averages in the space of marked lattices, *Geometriae Dedicata* 186 (2017) 75-102
- [20] F. Cellarosi and J. Marklof, Quadratic Weyl sums, automorphic functions, and invariance principles, *Proceedings of the London Mathematical Society* 113 (2016) 775-828
- [21] J. Marklof and B. Tóth, Superdiffusion in the periodic Lorentz gas, *Communications in Mathematical Physics* 347 (2016) 933-981
- [22] J. Marklof and A. Strömbergsson, Generalized linear Boltzmann equations for particle transport in polycrystals, *Applied Mathematics Research Express* 2015 (2015) 274-295
- [23] J. Marklof and A. Strömbergsson, Visibility and directions in quasicrystals, *International Mathematics Research Notices* 2015 (2015) 6588-6617
- [24] D. El-Baz, J. Marklof and I. Vinogradov, The two-point correlation function of the fractional parts of \sqrt{n} is Poisson, *Proceedings of the American Mathematical Society* 143 (2015) 2815-2828
- [25] D. El-Baz, J. Marklof and I. Vinogradov, The distribution of directions in an affine lattice: two-point correlations and mixed moments, *International Mathematics Research Notices* 2015 (2015) 1371-1400
- [26] J. Marklof and A. Strömbergsson, Power-law distributions for the free path length in Lorentz gases, *Journal of Statistical Physics* 155 (2014) 1072-1086 (Special issue dedicated to Herbert Spohn)
- [27] J. Griffin and J. Marklof, Limit theorems for skew translations, *Journal of Modern Dynamics* 8 (2014) 177-189
- [28] J. Marklof and A. Strömbergsson, Free path lengths in quasicrystals, *Communications in Mathematical Physics* 330 (2014) 723-755
- [29] J. Marklof and A. Strömbergsson, Gaps between logs, *Bulletin of the London Mathematical Society* 45 (2013) 1267-1280
- [30] E. Demirci Akarsu and J. Marklof, The value distribution of incomplete Gauss sums, *Mathematika* 59 (2013) 381-398
- [31] J. Marklof, Fine-scale statistics for the multidimensional Farey sequence, in: *Limit Theorems in Probability, Statistics and Number Theory*, Springer Proceedings in Mathematics & Statistics 42, 2013, pp. 49-57 (Festschrift in honour of Friedrich Götze)
- [32] H. Guillet de Chatellus, O. Jacquin, O. Hugon, W. Glastre, E. Lacot and J. Marklof, Generation of ultrahigh and tunable repetition rates in CW injection-seeded frequency-shifted feedback lasers, *Optics Express* 21 (2013) 15065-15074
- [33] J. Marklof and A. Strömbergsson, Diameters of random circulant graphs, *Combinatorica* 33 (2013) 429-466
- [34] J. Marklof and Z. Rudnick, Almost all eigenfunctions of a rational polygon are uniformly distributed, *Journal of Spectral Theory* 2 (2012) 107-113
- [35] J. Marklof and A. Strömbergsson, The periodic Lorentz gas in the Boltzmann-Grad limit: Asymptotic estimates, *GAFGA Geometric and Functional Analysis* 21 (2011) 560-647
- [36] P. Bachurin, K. Khanin, J. Marklof and A. Plakhov, Perfect retroreflectors and billiard dynamics, *Journal of Modern Dynamics* 5 (2011) 33-48
- [37] J. Marklof and A. Strömbergsson, The Boltzmann-Grad limit of the periodic Lorentz gas, *Annals of Mathematics* 174 (2011) 225-298
- [38] J. Marklof and A. Strömbergsson, The distribution of free path lengths in the periodic Lorentz gas and related lattice point problems, *Annals of Mathematics* 172 (2010) 1949-2033
- [39] J. Marklof, Horospheres and Farey fractions, *Contemporary Mathematics* 532 (2010) 97-106
- [40] J. Marklof, The asymptotic distribution of Frobenius numbers, *Inventiones Mathematicae* 181 (2010) 179-207
- [41] J.P. Keating, J. Marklof and B. Winn, Localised eigenfunctions in Seba billiards, *Journal of Mathematical Physics* 51 (2010) 062101 (19 pages)
- [42] J. Marklof and A. Strömbergsson, Kinetic transport in the two-dimensional periodic Lorentz gas, *Nonlinearity* 21 (2008) 1413-1422

- [43] J. Keating, J. Marklof and I. Williams, Nodal domain statistics for quantum chaotic maps, *New Journal of Physics* 10 (2008) 083023 (31pp)
- [44] J. Marklof, Y. Tourigny and L. Wolowski, Explicit invariant measures for products of random matrices, *Transactions of the American Mathematical Society* 360 (2008) 3391-3427
- [45] J. Marklof, Spectral theta series of operators with periodic bicharacteristic flow, *Annales de l'Institut Fourier* 57 (2007) 2401-2427 (Colin de Verdiere special issue)
- [46] J. Marklof, Y. Tourigny and L. Wolowski, Pade approximants of random Stieltjes series, *Proceedings of the Royal Society A* 463 (2007) 2813-2832.
- [47] K. Khanin, J. Lopes Dias and J. Marklof, Multidimensional continued fractions, dynamical renormalization and KAM theory, *Communications in Mathematical Physics* 270 (2007) 197-231
- [48] J. Keating, J. Marklof and I. Williams, Nodal domain statistics for quantum maps, percolation and stochastic Loewner evolution, *Physical Review Letters* 97 (2006) 034101 (4pp)
- [49] K. Khanin, J. Lopes Dias and J. Marklof, Renormalization of multidimensional Hamiltonian flows, *Nonlinearity* 19 (2006) 2727-2753
- [50] J. Marklof, Quantum leaks, *Communications in Mathematical Physics* 264 (2006) 303-316
- [51] A. Eskin, J. Marklof and D. Witte Morris, Unipotent flows on the space of branched covers of Veech surfaces, *Ergodic Theory and Dynamical Systems* 26 (2006) 129-162
- [52] J. Marklof, Mean square value of exponential sums related to the representation of integers as sums of squares, *Acta Arithmetica* 117 (2005) 353-370
- [53] D. Kutasov, J. Marklof and G.W. Moore, Melvin models and diophantine approximation, *Communications in Mathematical Physics* 256 (2005) 491-511
- [54] J. Marklof and S. O'Keefe, Weyl's law and quantum ergodicity for maps with divided phase space, with an appendix by S. Zelditch, *Nonlinearity* 18 (2005) 277-304
- [55] O. Giraud, J. Marklof and S. O'Keefe, Intermediate statistics in quantum maps, *Journal of Physics A* 37 (2004) L303-L311
- [56] J. Marklof, Holomorphic almost modular forms, *Bulletin of the London Mathematical Society* 36 (2004) 647-655
- [57] J. Marklof and A. Strömbergsson, Equidistribution of Kronecker sequences along closed horocycles, *GAFAGeometric and Functional Analysis* 13 (2003) 1239-1280
- [58] J.P. Keating, J. Marklof and B. Winn, Value distribution of the eigenfunctions and spectral determinants of quantum star graphs, *Communications in Mathematical Physics* 241 (2003) 421-452
- [59] J. Marklof, Almost modular functions and the distribution of n^2x modulo one, *IMRN International Mathematics Research Notices* 39 (2003) 2131-2151
- [60] J. Marklof, Pair correlation densities of inhomogeneous quadratic forms, *Annals of Mathematics* 158 (2003) 419-471
- [61] J. Marklof, Pair correlation densities of inhomogeneous quadratic forms II, *Duke Mathematical Journal* 115 (2002) 409-434; Correction, *ibid.* 120 (2003) 227-228
- [62] S. Keppeler, J. Marklof and F. Mezzadri, Quantum cat maps with spin $\frac{1}{2}$, *Nonlinearity* 14 (2001) 719-738
- [63] J. Marklof and Z. Rudnick, Quantum unique ergodicity for parabolic maps, *GAFAGeometric and Functional Analysis* 10 (2000) 1554-1578
- [64] J. Marklof, The n -point correlations between values of a linear form, with an appendix by Z. Rudnick, *Ergodic Theory and Dynamical Systems* 20 (2000) 1127-1172
- [65] J. Marklof, Theta sums, Eisenstein series, and the semiclassical dynamics of a precessing spin, D. Hejhal, J. Friedman, M. Gutzwiller and A. Odlyzko (eds.), *Emerging Applications of Number Theory*, IMA Volumes in Mathematics and its Applications, Volume 109 (Springer, New York, 1999), 405-450
- [66] J. Marklof, Limit theorems for theta sums, *Duke Mathematical Journal* 71 (1999) 127-153.
- [67] J. Marklof, Spectral form factors of rectangle billiards, *Communications in Mathematical Physics* 199 (1998) 169-202
- [68] P. Stifter, C. Leichtle, W.P. Schleich and J. Marklof, Das Teilchen im Kasten: Strukturen in der Wahrscheinlichkeitsdichte, *Zeitschrift für Naturforschung* 52 a (1997) 377-385
- [69] J. Marklof, On multiplicities in length spectra of arithmetic hyperbolic three-orbifolds, *Nonlinearity* 9 (1996) 517-536
- [70] R. Aurich and J. Marklof, Trace formulae for three-dimensional hyperbolic lattices and application to a strongly chaotic tetrahedral billiard, *Physica D* 92 (1996) 101-129

Review articles, lecture notes

- [71] J. Marklof, The low-density limit of the Lorentz gas: periodic, aperiodic and random, Proceedings of the ICM 2014, Seoul, Vol. III, pp. 623-646
- [72] J. Marklof, Kinetic limits of dynamical systems, in: *Hyperbolic Dynamics, Fluctuations and Large Deviations*, eds. D. Dolgopyat, Y. Pesin, M. Pollicott, L. Stoyanov, Proc. Symp. Pure Math., American Mathematical Soc. 2015, pp. 195-223
- [73] J. Marklof, Selberg's trace formula: an introduction, in: *Hyperbolic Geometry and Applications in Quantum Chaos and Cosmology*, eds. J. Bolte and F. Steiner, Cambridge University Press 2011, pp. 83-119
- [74] J. Marklof, Horospheres, Farey fractions and Frobenius numbers, *Oberwolfach Report 29/2010*, pp. 28-32
- [75] J. Marklof, Kinetic transport in crystals, *Proceedings of the XVIIth International Congress on Mathematical Physics*, Prague 2009, pp. 162-179
- [76] J. Marklof, Arithmetic quantum chaos, *Encyclopedia of Mathematical Physics*, eds. J.-P. Francoise, G.L. Naber and Tsou S.T., Oxford: Elsevier, 2006, Volume 1, pp. 212-220
- [77] J. Marklof, Energy level statistics, lattice point problems and almost modular functions, *Frontiers in Number Theory, Physics and Geometry. Volume 1: On random matrices, zeta functions and dynamical systems*, eds. P. Cartier, B. Julia, P. Moussa and P. Vanhove; Springer, 2006, pp. 163-181
- [78] J. Marklof, Cat map, *Encyclopedia of Nonlinear Science*, Routledge, New York, 2004
- [79] J. Marklof, Level spacing statistics and integrable dynamics, *Proceedings of the XIIIth International Congress on Mathematical Physics*, London 2000 (International Press, Boston, 2001) 359-363
- [80] T. Kriecherbauer, J. Marklof and A. Soshnikov, Random matrices and quantum chaos, *Proceedings of the National Academy of Sciences (USA)* 98 (2001) 10531-10532
- [81] J. Marklof, The Berry-Tabor conjecture, *Proceedings of the 3rd European Congress of Mathematics*, Barcelona 2000, Progress in Mathematics Vol. 202 (Birkhäuser, Basel, 2001) 421-427

Invited Lectures

Invited lecture series

1. *Random lattices and their applications in number theory geometry and statistical mechanics*, The Infosys Chandrasekharan Random Geometry Lecture Series, TIFR Mumbai, India, 22-24 February 2023.
2. *Fine-scale statistics in number theory, geometry and dynamics*, Workshop on Lattice Point Distribution and Homogeneous Dynamics, ICERM, Brown University, 22-26 June 2020 (3 online lectures)
https://icerm.brown.edu/video_archive/?play=2222
3. *Local Statistics and Homogeneous Dynamics*, Workshop and Winter School on Local Statistics of Point Sequences, Linz, Austria, 25 February-1 March 2019 (double lecture).
4. *The space of quasicrystals and applications to mathematical physics*, The Batsheva de Rothschild Seminar on Quasicrystals, Delone sets and Generalizations of Lattices, Ohalo, Israel, 11-16 March 2018 (with A. Strömbergsson, 4 Lectures).
5. *Applications of homogeneous dynamics: from number theory to statistical mechanics*, ICTP Trieste, 27-31 July 2015 (with A. Strömbergsson, 10 Lectures & 4 tutorials)
<https://www.youtube.com/watch?v=PnQQzr0pN2I>
6. *Homogeneous flows and the statistics of directions*, Introductory Workshop: Geometric and Arithmetic Aspects of Homogeneous Dynamics, MSRI, Berkeley, 2-6 February 2015 (3 lectures)
7. *Kinetic limits of dynamical systems*, Masterclass “Randomness: classical and quantum”, University of Copenhagen, 4-8 November 2013 (6 lectures)
8. *Applications of measure rigidity: from number theory to statistical mechanics*, Simons Lectures, Stony Brook, 2-4 October 2013 (3 lectures)
9. *From Newton’s laws to macroscopic transport equations: The Boltzmann-Grad limit of the Lorentz gas*, CIRM Summer School, Marseilles, 1-7 September 2013 (4 lectures)
10. *Kinetic limits of dynamical systems*, Summer school “Limit Theorems for Dynamical Systems”, Bernoulli Center, EPFL Lausanne, 27-31 May 2013 (6 lectures)
11. *Level statistics for integrable quantum systems*, EMS - IAMP Summer School “Quantum Chaos”, Erwin Schrödinger Institut, Vienna, 30 July-3 August 2012 (1 lecture)
12. *Essén Lectures 2012: Emerging applications of homogeneous dynamics: From discrete mathematics to statistical physics*, Uppsala University, 11-15 June 2012 (15 lectures)
13. *Equidistribution in the space of lattices and some recent applications*, Erwin Schrödinger Institut, Vienna, 10-14 October 2011 (3 lectures)
14. *Three lectures on quantum maps, quantum ergodicity and bouncing ball modes*, LMS-EPSRC Short Course “Quantum Chaos”, University of Nottingham, 22-26 June 2009 (3 lectures)
15. *The Boltzmann-Grad limit of the periodic Lorentz gas*, Erwin Schrödinger Institut, Vienna, 23-24 June 2008 (2 lectures)
16. *Distribution mod 1 and ergodic theory*, Université de Bordeaux, 24-28 April 2005 (3 lectures)
17. *Equidistribution in number theory*, Université de Montréal, 11-22 July 2005 (4 lectures)
18. *Energy level statistics, lattice point problems and ergodic theory*, Institut Poincaré, Paris, 27 June-5 July 2005 (5 lectures)
19. *Mathematical aspects of quantum chaos*, The Center for Dynamics and Geometry Lecture Series, Penn State University, 28-30 March 2005 (4 lectures)
20. Principal Lecturer, *Les Rencontres Mathématiques de l’UMPA*, Modèles mathématiques du chaos quantique, Ecole Normale Supérieure, Lyon, 27-28 February 2004 (3 lectures)
21. *International School Quantum Chaos on Hyperbolic Manifolds*, Lecture course on Selberg’s trace formula, Schloss Reinsburg (Günzburg, Germany), 4-11 October 2003 (5 lectures)

Invited speaker at international conferences

1. *Group Actions and Harmonic Analysis in Number Theory*, Oberwolfach, 7-12 May 2023.
2. *Ergodic Theory and Dynamical Systems*, In honour of S.G. Dani’s 75th Birthday, ICTS Bengaluru, India, 5-16 December 2022
3. *Large-scale limits of interacting particle systems*, IHÉS, Bures-sur-Yvettes, France, 4-8 October, 2021
4. *Ninth Bucharest Number Theory Days: In honor of Alexandru Zaharescu’s 60th Birthday*, 1-3 June 2021 (online).
5. *13th National Congress of the Chinese Mathematical Society 2019*, Guangzhou, 20-24 November 2019.

6. *Smooth and Homogeneous Dynamics*, ICTS Bangalore, India, 23 September-4 October 2019.
7. *Dynamics, Equations and Applications*, Krakow, Poland, 16-20 September 2019.
8. *Workshop on Effective Equations: Frontiers in Classical and Quantum systems*, HIM Bonn, Germany, 24-28 June 2019.
9. *From Order to Chaos*, Centro De Giorgi, Scuola Normale Superiore, Pisa, Italy, 10-13 April 2018.
10. *Probability, Analysis and Dynamics 2018*, Bristol, 4-6 April 2018.
11. *New Developments in Open Dynamical Systems and Their Applications*, BIRS, Banff, Canada, 19-24 March 2018.
12. *Clay Research Conference: Ergodic Theory: Numbers, Fractals, and Geometry*, Oxford, 24-29 September 2017.
13. *Aperiodic Patterns in Crystals, Numbers and Symbols*, Lorentz Center, Leiden, 19-23 June 2017.
14. *Analytical Methods in Classical and Quantum Dynamical Systems*, CRM Pisa, 27 June-1 July 2016.
15. *Periodic, Almost-Periodic, and Random Problems*, UCL, London, 4-6 June 2016.
16. *Hyperbolic Dynamics and Statistical Physics* (Domokos Szász' 75th birthday), ESI, Vienna, 17-21 May 2016.
17. *Dynamics of Geometric Group Actions* (Francois Ledrappier's 70th birthday), Bonn, 14-18 January 2016.
18. *Challenges in statistical mechanics: from mathematics to molecular dynamics to technological applications*, Imperial College London, 7-10 December 2015.
19. *Stochastics and Interactions* (Bálint Tóth's 60th birthday), Alfréd Rényi Institute, Budapest, 21-24 July 2015.
20. *Periodic and other ergodic problems*, Isaac Newton Institute, Cambridge, 23-27 March 2015,
21. *PMPM Workshop: Roads to Success in Porous Media Research*, Edinburgh, 11-12 December 2014.
22. *The Huxley Meeting on Analytic Number Theory* (Martin Huxley's 70th birthday), Cardiff, 17-19 September 2014.
23. *International Congress of Mathematicians*, Seoul, 12-21 August 2014.
24. *Homogeneous Dynamics, Unipotent Flows, and Applications*, Workshop in Honor of Marina Ratner, Israel Institute for Advanced Studies, Jerusalem, 13-17 October 2013.
25. *GDR Dynamique Quantique*, Lille, 6-8 February 2013.
26. *Complex patterns in wave functions - drums, graphs, and disorder*, Theo Murphy International Scientific Meeting, Kavli Royal Society International Centre, Buckinghamshire, 5-7 September 2012.
27. *60th Birthday Colloquium Friedrich Goetze*, Bielefeld, 3-6 August 2011.
28. *Géométrie Ergodique*, Orsay, 23-27 May 2011.
29. *Ergodic Theory and Number Theory*, Warwick, 11-15 April 2011.
30. *Homogeneous Dynamics and Number Theory*, Oberwolfach, 4-10 July 2010.
31. *Workshop on Quantum Chaos: Arithmetic and Dynamics*, Princeton, 7-9 April 2010.
32. *International Congress of Mathematical Physics*, Prague, 3-8 August 2009.
33. *Chaos/Xaoc 2009*, Woods Hole, Massachusetts, 24-26 July 2009.
34. *Dynamical Numbers: Interplay between Dynamical Systems and Number Theory*, Max Planck Institute for Mathematics, Bonn, 20-24 July 2009.
35. *Automorphic forms, number theory, and computation* (Dennis Hejhal's 60th birthday), Uppsala University, Sweden, 8-10 December 2008.
36. *Workshop on Ergodic Theory and Geometry*, University of Manchester, 1-4 April 2008.
37. *Workshop on Chaotic Properties of Dynamical Systems: Dimension Theory, Thermodynamic Formalism and Non-Uniformly Hyperbolic Dynamics*, Warwick University, 20-24 August 2007.
38. *Dynamical Systems and Number Theory*, Centro De Giorgi, Scuola Normale Superiore, Pisa, 19 April-6 July 2007.
39. *School and Conference on Analytic Number Theory*, ICTP Trieste, 23 April-11 May 2007.
40. *British Mathematics Colloquium* (Morning Speaker), Swansea, 16-18 April 2007.
41. *Number theory and random phenomena*, Heilbronn Institute, University of Bristol, 26-30 March 2007.
42. *Inaugural Conference, Journal of Modern Dynamics*, Penn State, 2-5 November 2006.
43. *Festival Colin de Verdière*, Grenoble, 29 May-2 June 2006.
44. *Arithmatrix workshop*, Bordeaux, 24-28 April 2006.
45. *Semiclassical analysis and mathematical quantum mechanics*, 4th meeting of GDRE, Bologna University, 9-11 March 2006.
46. *Number Theory and Dynamical Systems*, ETH Zurich, 23-25 January 2006.
47. *Workshop on wave functions*, Bristol, 12-14 September 2005.

48. *Probabilistic Limit Laws for Dynamical Systems*, ICMS, Edinburgh, 13-17 June 2005.
49. *Quantum chaos, random matrices and their applications*, Invited Speaker, ZiF, Bielefeld, Germany, 23-25 May 2005.
50. *QMath9*, Invited Speaker, Giens, France, 11-17 September 2004.
51. *Workshop on Quantum Dynamics and Quantum Transport*, University of Warwick, 6-10 September 2004.
52. *Emerging Applications of Measure Rigidity*, American Institute of Mathematics, Palo Alto, 13-18 June 2004.
53. *Random Matrices and Probability*, University of Warwick, 18-21 May 2004.
54. *Workshop on Spectral Theory and Automorphic Forms*, Centre de recherches mathématiques, Université de Montréal, Canada, 3-8 May 2004.
55. *Workshop on Quantum Ergodicity*, Lunds Universitet, Sweden, 22-24 January 2004.
56. *Conference on Ergodic Theory and Symbolic Dynamics*, University of Warwick, 7-18 July 2003.
57. *Frontiers in Number Theory, Physics and Geometry*, École de Physique des Houches, Les Houches, France, 9-21 March 2003.
58. *UK-Japan Winter School*, University of Warwick, 9-14 January 2003.
59. *EC Network Meeting "Mathematical Aspects of Quantum Chaos"*, Paris 2002.
60. *British Mathematics Colloquium*, Invited Speaker, Warwick 2002.
61. *SIAM Regional Meeting*, Leeds, 11 January 2002.
62. *Conference on Anderson Localization and Quantum Chaos*, Invited Panel Speaker, ICTP, Trieste, Italy, 23-29 September 2001.
63. *Gentner Symposium on Quantum Chaos*, Ein Gedi, Israel, 25 February-2 March 2001.
64. *International Congress on Mathematical Physics 2000*, Invited Speaker, London, 17-22 July 2000.
65. *Third European Congress of Mathematics 2000*, Invited Speaker, Barcelona, 10-14 July 2000.
66. *EuroConference on Ergodic Theory, Geometric Rigidity and Number Theory*, Isaac Newton Institute, Cambridge, 3-7 July 2000.
67. *German-American Frontiers of Science*, National Academy of Sciences, Irvine CA, USA, 8-10 June 2000.
68. *Classical and Quantum Ergodicity*, DFG Workshop, Blaubeuren, Germany, 29 May 2000 – 1 June 2000.
69. *DPG Frühjahrstagung*, Hauptvortrag, Heidelberg, Germany, 18 March 1999.
70. *Disordered Systems and Quantum Chaos (Final Conference)*, Isaac Newton Institute, Cambridge, UK, December 8-12, 1997.
71. *Workshop on Chaos and Quantization*, Niels-Bohr-Institute, Copenhagen, Danmark, December 12-14, 1996.
72. *Workshop on Emerging Applications of Number Theory*, Institute for Mathematics and its Applications, Minneapolis, MN, USA, July 1-31, 1996.
73. *Workshop on Number Theoretic Aspects of Ergodic Theory and Quantum Chaos*, St. Andreasberg/Harz, Germany, June 17-21, 1996.
74. *Workshop on Asymptotic Properties of Eigenstates of Classically Chaotic Systems*, Harvard University, Cambridge, MA, USA, April 26-28, 1996.
75. *German-Israel Winter School on Quantum Chaos and Applications*, Weizmann Institute of Science, Rehovot, Israel, February 18-23, 1996.

Invited speaker at colloquia and research seminars

1. *Number Theory Web Seminar*, <https://www.ntwebseminar.org>, 9 November 2023 (online).
2. *Number Theory Seminar*, University of Genova, 31 May 2023.
3. *Mathematical Colloquium*, King's College London, 10 January 2023.
4. *Supporting Lecture*, Annual General Meeting, London Mathematical Society, 12 November 2021.
5. *Mathematics Colloquium*, Dalhousie University, Nova Scotia, 22 February 2021 (online).
6. *Stats-Math Colloquium*, Indian Statistical Institute, Bangalore, 17 December 2020 (online).
7. *Mathematics Colloquium*, University of Maryland, 11 November 2020 (online).
8. *Number Theory Web Seminar*, <https://www.ntwebseminar.org>, 3 November 2020 (online).
9. *Mathematics Colloquium*, University of Houston, Texas, 28 October 2020 (online).
10. *PDE Seminar*, University of Oxford, 8 June 2020 (online).
11. *Mathematical Physics Seminar*, Università Tor Vergata, Rome, Italy, 23 January 2020.
12. *Mathematical Physics Seminar*, Università La Sapienza, Rome, Italy, 22 January 2020.
13. *Séminaire de Systèmes Dynamiques*, Paris, France, 8 November 2019.

14. *Colloque de mathématiques*, University of Geneva, Switzerland, 17 October 2019.
15. *Ergodic Theory and Dynamical Systems Seminar*, University of Warwick, 12 March 2019.
16. *Dynamical Systems Seminar*, Imperial College London, 22 January 2019.
17. *LMS South Wales and South West Regional Meeting*, Exeter, 17 December 2018.
18. *Dynamical Systems Seminar*, University of Exeter, 30 April 2018.
19. *Number Theory Seminar*, Tel Aviv University, Israel, 15 March 2018.
20. *DNA Seminar*, Uppsala University, 14 February 2018.
21. *London Number Theory Seminar*, King's College London, 7 June 2017.
22. *London Analysis Seminar*, King's College London, 25 May 2017.
23. *DNA Seminar*, Uppsala University, 22 March 2017.
24. *Mathematical Colloquium*, Queen Mary University of London, 5 December 2016.
25. *London Analysis Seminar*, UCL, 1 December 2016.
26. *Lewis Fry Richardson Lecture*, University of York, 3 March 2016.
27. *Lecture*, Graduiertenkolleg "Methoden für diskrete Strukturen", TU Berlin, 18 January 2016.
28. *DPMMS Colloquium*, Cambridge University, 12 November 2015.
29. *Number Theory Seminar*, Oxford University, 30 April 2015.
30. *ITS Informal Analytic Number Theory Seminar*, ETH Zürich, 10 March 2015.
31. *Ergodic Theory and Dynamical Systems Seminar*, University of Warwick, 2 December 2014.
32. *Journée Dynamique*, Université Paris 6 & 7, 28 October 2014.
33. *Number Theory Seminar*, Universität zu Köln, 30 June 2014.
34. *CCES Seminar*, Universität Aachen, 26 June 2014.
35. *Seminar*, Max-Planck-Institut für Mathematik, Bonn, 24 June 2014.
36. *Mathematisches Kolloquium*, Universität Bielefeld, 10 April 2014.
37. *Paris Dynamical Systems Seminar*, College de France, Paris, 14 March 2014.
38. *New York Joint Number Theory Seminar*, CUNY Graduate Center, New York, 12 December 2013.
39. *Ergodic Theory and Statistical Mechanics Seminar*, Princeton University, 5 December 2013.
40. *Non-Equilibrium Dynamics and Random Matrices Seminar*, Institute for Advanced Study, Princeton, 26 September 2013.
41. *Dynamical Systems Seminar*, Imperial College, London 15 November 2012.
42. *Paris-London Analysis Seminar*, Queen Mary, London 23 March 2012.
43. *Geometry Seminar*, ETH Zurich, 22 February 2012.
44. *Mathematics Colloquium*, Durham University, 23 January 2012.
45. *Mathematics Colloquium*, Warwick University, 20 January 2012.
46. *LMS One-day meeting Number Theory and Representation Theory*, UEA London Campus, 23 November 2011.
47. *15th Early Career Mathematicians Conference* Institute for Mathematics and its Applications, Bristol, 19 November 2011.
48. *Séminaire Problèmes Spectraux en Physique Mathématique*, Institut Poincaré, Paris, 23 May 2011.
49. *Colloquium*, Cardiff University, 13 April 2011.
50. *Colloquium*, Loughborough University, 25 February 2011.
51. *London Analysis Seminar*, Imperial College London, 28 January 2010.
52. *Colloquium*, Mathematisches Institut, Universität Tübingen, 17 July 2009.
53. *Colloquium*, Graduate School Mathematical Analysis of Evolution, Information and Complexity, Universität Ulm, 16 July 2009.
54. *Oberseminar Differentialgeometrie*, Universität Bonn, 2 July 2009.
55. *Joint Seminar in Pure and Applied Mathematics*, Royal Holloway, 3 February 2009.
56. *LMS One Day Ergodic Theory Meeting*, University of Surrey, 18 April 2008.
57. *Ergodic Theory Seminar*, Ecole Polytechnique, Palaiseau, 14 April 2008.
58. *Dynamical Systems Seminar*, Queen Mary, University of London, 4 March 2008.
59. *Theoretical Physics Seminar*, Department of Physics, University of Bristol, 12 December 2007.
60. *Colloquium*, Department of Mathematics, University of Toronto, 15 March 2007.
61. *Institutskolloquium*, Max-Planck-Institut für Mathematik in den Naturwissenschaften, Leipzig, 14 February 2007.
62. *Probability Theory Seminar*, University College Cork, 26 January 2007.
63. *Prospects in Mathematics*, University of Durham, 15-16 December 2006.
64. *Ergodic Theory and Statistical Mechanics Seminar*, Princeton University, 9 November 2006.
65. *Pure Mathematics Colloquium*, University College London, 17 October 2006.
66. *KTH and Stockholm University Mathematics Colloquium*, KTH Stockholm, 13 September 2006.

67. *DNA Seminar*, KTH Stockholm, 11 September 2006.
68. *Ergodic Theory and Dynamical Systems Seminar*, University of Warwick, 16 May 2006.
69. *Mathematical Colloquium*, University of Liverpool, 3 February 2006.
70. *Mathematical Colloquium*, University of Durham, 5 December 2005.
71. *Maxwell Institute Analysis Seminar*, Edinburgh, 22 November 2005.
72. *Geometry Seminar*, University of Warwick, 17 November 2005.
73. *Dynamical Systems Seminar*, University of Surrey, 13 May 2005.
74. *Mathematical Colloquium*, Penn State University, 24 March 2005.
75. *Analysis Seminar*, Johns Hopkins University, Baltimore, 22 March 2005.
76. *Maryland/Penn State Dynamical Systems Meeting*, University of Maryland, 22 March 2005.
77. *Number Theory Seminar*, Oxford University, 3 March 2005.
78. *London Number Theory Seminar*, 8 December 2004.
79. *Dynamical Systems Seminar*, University of Manchester, 24 November 2004.
80. *DNA Seminar*, Uppsala Universitet, Sweden, 15 November 2004.
81. *Seminario de Analise, Geometria e Sistemas Dinamicos*, Instituto Superior Técnico, Lisbon, Portugal, 1 June 2004.
82. *LMS One-Day Mathematical Physics Meeting*, Loughborough University, 21 May 2004.
83. *Workshop on Quantum Random Walks and Quantum Graphs*, University of Nottingham, 23 April 2004.
84. *Mathematics Colloquium*, University of York, 21 April 2004.
85. *Mathematics Colloquium*, University of Liverpool, 12 March 2004.
86. *Seminar*, Laboratoire de Physique Théorique et Modèles Statistiques, Orsay, France, 24 February 2004.
87. *Theoretical Physics Seminar*, SPhT, CEA Saclay, France, 23 February 2004.
88. *Mathematics Colloquium*, University of Sussex, Brighton, 18 February 2004.
89. *LMS One Day Ergodic Theory Meeting*, Manchester University, 26 November 2003.
90. *Workshop on Ergodic Theory of Interval Maps*, Imperial College London, 19 November 2003.
91. *Seminar Spektrale Analysis und stochastische Modelle*, Universität Bielefeld, Germany, 13 November 2003.
92. *Program on Semiclassical Analysis*, Mathematical Sciences Research Institute, Berkeley, USA, 30 April 2003.
93. *Mathematical Physics Seminar*, University of California, Davis, USA, 29 April 2003.
94. *Seminar in Pure Mathematics*, University of Exeter, 5 December 2002.
95. *London Analysis Seminar*, King's College London, 21 November 2002.
96. *Seminar Spektrale Analysis und stochastische Modelle*, Universität Bielefeld, Germany, 7 November 2002.
97. *Dynamical Systems Seminar*, Cambridge University, Cambridge, 8 October 2002.
98. *Society Meeting*, London Mathematical Society, London, 21 June 2002.
99. *Ergodic Theory Seminar*, Queen Mary and Westfield College, London, 29 January 2002.
100. *Seminar Spektrale Analysis und stochastische Modelle*, Universität Bielefeld, Germany, April 2001.
101. *Mathematical Colloquium*, University of Warwick, U.K., 17 November 2000.
102. *Seminar in Mathematical Physics*, Institut Fourier, Grenoble, 10 October 2000.
103. *Ergodic Theory Seminar*, Isaac Newton Institute, Cambridge, 11 April 2000.
104. *Meeting on Dynamical Systems*, Loughborough University, U.K., 7-8 April 2000.
105. *Theoretical Physics Seminar*, Bristol University, U.K., 1 March 2000.
106. *Mathematics Seminar*, Cardiff University, U.K., 19 January 2000.
107. *Seminar Spektrale Analysis und stochastische Modelle*, Universität Bielefeld, Germany, 21 December 1999.
108. *Dynamical Systems Seminar*, University of Manchester, U.K., 1 December 1999.
109. *Ergodic Theory and Dynamical Systems Seminar*, University of Warwick, U.K., 30 November 1999.
110. *Mathematics Seminar*, Hebrew University, Jerusalem, Israel, 18 November 1999.
111. *Pure Group Seminar*, University of Bristol, U.K., 19 October 1999.
112. *Industrial Applied Mathematics Seminar*, University of Southampton, U.K., 4 October 1999.
113. *Number Theory Seminar*, Università di Genova, Italy, 28 September 1999.
114. *AG Wahrscheinlichkeitstheorie und Statistik*, Universität Bielefeld, Germany, 29 June 1999.
115. *Problèmes Spectraux en Physique Mathématiques*, Université Paris 7, France, 17 May 1999.
116. *Mathematical Physics Seminar*, Università di Bologna, Italy, 8 April 1999.
117. *Dynamical Systems Seminar*, University of California, Berkeley, USA, 9 February 1999.

118. *Program on Random Matrix Models*, Mathematical Sciences Research Institute, Berkeley, USA, 4 February 1999.
119. *Séminaire de physique mathématique et géométrie*, University Paris VII, 17 November 1998.
120. *Spektrale Analysis und stochastische Modelle*, Universität Bielefeld, Germany, 5 November 1998.
121. *Mathematical Physics Seminar*, University of Lille, France, 20 October 1998.
122. *Mini-Meeting on Dynamical Systems*, IHES, France, July 8, 1998.
123. *Dynamical Systems Seminar*, Department of Mathematics, University of Geneva, Switzerland, May 5, 1998.
124. *Theoretical Physics Seminar*, Technion, Haifa, Israel, March 15, 1998.
125. *Colloquium Lecture*, Department of Mathematics, Tel Aviv University, Israel, March 9, 1998.
126. *Quantum Chaos Seminar*, Weizmann Institute, Rehovot, Israel, March 3, 1998.
127. *Quantum Chaos Seminar*, Institut de Physique Nucléaire, Orsay, France, January 1998.
128. *Seminar in Applied Mathematics*, Bristol University, Bristol, UK, September 22, 1997.
129. *Workshop on Geometry and Analysis*, Bristol University jointly with University of Oregon, Bristol, UK, September 15, 1997.
130. *Seminar on Disordered Systems and Quantum Chaos*, Isaac Newton Institute, Cambridge, UK, August 5, 1997.
131. *Analysis Workshop*, Bristol University, Bristol, UK, May 22 and June 5, 1997.
132. *Seminar in Pure Mathematics*, Bristol University, Bristol, UK, May 20, 1997.
133. *Physical Asymptotics Seminar*, Hewlett-Packard Laboratories, Bristol, UK, April 11, 1997.
134. *Quantum Chaos Seminar*, Universität Ulm, Ulm, Germany, October 15, 1996.
135. *Stipendiatentreffen der Gottlieb Daimler- und Karl Benz-Stiftung*, Willebadessen, Germany, September 13-15, 1996.
136. *Prof. Sinai's Ergodic Theory and Statistical Mechanics Seminar*, Princeton University, Princeton, NJ, USA, April 22, 1996.
137. *Theoretisch-Physikalisches Kolloquium*, Universität Ulm, Ulm, Germany, February 15, 1996.