Publications of Members of the CODY Network, Year 2

Publications marked with a (*) are directly related to the network tasks.

Publications of the UK Team

F.H. Kwakkel, M. Martens and M.M. Peixoto, Focal rigidity of the torus, [Submitted for Publ] **[ESR]** (*)

F. Kwakkel and V. Markovic, Topological entropy and diffeomorphisms of surfaces with wandering domains, [Manuscript in Preparation] **[ESR at Warwick]** (*)

F.H. Kwakkel, Toral automorphisms sem-conjugate to a rotation with wandering domains, [Manuscript in Preparation] **[ESR at Warwick]** (*)

A. Badenska, Real analyticity of the Jacobian of invariant measures for hyperbolic meromorphic functions, Bulletin of LMS. **40** (2008) 1017-1024, [Journal]**[ESR at Warwick, but work done prior to appointment]** (*)

A. Badenska, Rigidity theorem for some classes of transcedental meromorphic functions, [Submitted for Publ]**[ESR at Warwick]** (*)

A. Badenska, Misiurewicz parameters in the exponential family. [Manuscript in preparation] **[ESR at Warwick]** (*)

Henk Bruin, Weixiao Shen and Sebastian van Strien, Existence of unique SRB-measures is typical for unimodal families, Annales Scientifiques de l'ENS, 4e série, 39, 2006, 381-414. [Journal] (*)

Henk Bruin, Juan Rivera-Letelier, Weixiao Shen and Sebastian van Strien, Large derivatives, backward contraction and invariant densities for interval maps, Inventiones Math. 172, (2008), 509-533. [Journal] (*)

Alexandre Eremenko and Sebastian van Strien, Rational functions with real multipliers. Preprint Oct 2008. arXiv:0810.2260, [Submitted for Publ] (*)

Lasse Rempe and Sebastian van Strien, Absence of line fields and Mañé's theorem for non-recurrent transcendental functions Preprint Feb 2008, arXiv:0802.0666 [Submitted for Publ] (*)

Oleg Kozlovski and Sebastian van Strien, Local connectivity and quasi-conformal rigidity of non-renormalizable polynomials arXiv:math/0609710. To appear in Proceedings of the LMS. [Accepted for Publ] (*)

Colin Sparrow, Sebastian van Strien and Christopher Harris, Fictitious Play in 3x3 Games: the transition between periodic and chaotic behavior.

Games and Economic Behavior 63, (2008), 259-291. [Journal]

V. Markovic and D. Saric,The universal properties of Teichmueller spaces Survey article (2008) [Submitted for Publ]

V. Markovic and D. Saric, The Mapping class group cannot be realized by homeomorphisms. (2008) [Submitted for Publ]

J. Kahn and V. Markovic, The Weil-Petersson distance between finite degree covers of punctured Riemann surfaces and random ideal triangulations. preprint (2008) [Submitted for Publ]

V. Markovic and D. Saric The Teichmueller distance between finite index subgroups of PSL(2,Z). Geometriae Dedicata 136 (2008), 145–165. [Journal]

M. Pollicott, R. Sharp, S. Tuncel and P. Walters, The mathematical research of William Parry FRS, Ergodic Theory and Dynamical Systems, 28 (2008) 321-337 [Journal]

M. Pollicott with W. Parry, postumously, An analogue of Bauer's theorem for closed orbits of skew products, Ergodic Theory and Dynamical Systems, 28 (2008) 535-546 [Journal]

M. Pollicott and R. Sharp, Addendum: An analogue of Artin reciprocity for closed orbits of skew products, Ergodic Theory and Dynamical Systems, Volume 28 (2008) 547-552 [Journal]

K. Burns, , D. Dolgopyat, Yakov Pesin and M. Pollicott, Stable ergodicity for partially hyperbolic attractors with negative central exponents, Journal of Modern Dynamics, 2 (2008) 63-81 [Journal]

T. Jordan and M. Pollicott, The Hausdorff dimension of measures for iterated function systems which contract on average, Discrete and Continuous Dynamical Systems 22 (2008) 235–246 [Journal]

M. Pollicott and H. Weiss, How smooth is your wavelet? Wavelet regularity via thermodynamic formalism, Communications in Mathematical Physics 281 (2008) 1–21. [Journal]

M. Pollicott and R. Sharp Periodic orbits and holonomy for hyperbolic flows, in "Geometric and Probabilistic Structures in Dynamics" Contemporary Mathematics 469, 289-302, (2008) [Journal]

Publications Warsaw Team

A. Zdunik "Maximizing measures of metrizable non-compact spaces" (with A. Davie, M. Urbanski), Proc. Edinb. Math. Soc. (2) 50 (2007), no.1, 123-151. [Journal]

A. Zdunik "Instability of exponential Collet-Eckmann maps" (with M. Urbanski) Israel J. Math. 161 (2007), 347-371. [Journal]

K. Baranski "Trees and hairs for some hyperbolic entire maps of finite order" Math. Z. 257.1 (2007), 33-59. [Journal]

K. Baranski, B. Karpinska "Coding trees and boundaries of attracting basins for some entire maps", Nonlinearity 20.2 (2007), 391-415. [Journal]

F. Przytycki "Statistical properties of topological Collet-Eckmann maps" (with J. Rivera-Letelier), Ann. Sc. ENS 40.1 (2007)135-178. [Journal]

M. Rams, J. Levy-Vehel "Results on the dimension spectrum for self-conformal measures", Nonlinearity 20.4 (2007), 965-973. [Journal]

K. Baranski "Hausdorff dimension of the limit sets of some planar geometric constructions", Adv. Math. 210.1 (2007), 391-415. [Journal]

K. Baranski, B. Karpinska, A. Zdunik "Dimension properties of the boundaries of exponential basins", preprint. [Submitted for Publ] (*)

Neil Dobbs "Non-existence of absolutely continuous invariant probabilities for exponential family". [Submitted for Publ][**ER**] (*)

Irene Inoquio "Thermodynamic formalism for some transcendental maps, symbolic dynamic outlook". [Submitted for Publ][**ESR**] (*)

F. Przytycki, J. Rivera-Letelier "Nice inducing schemes and the thermodynamics of rational maps", [Submitted for Publ] (*)

Neil Dobbs "Measures with positive Lyapunov exponent and conformal measures in rational dynamics", arXiv:0804.3753v1.[Submitted for Publ] [**ER**] (*)

Neil Dobbs "On cusps and flat tops", arXiv:0801.3815. [Submitted for Publ] [**ER**] (*)

Neil Dobbs "Renormalisation-induced phase transitions for unimodal maps" Submitted. arXiv:0712.3023v2. [Submitted for Publ] [**ER**] (*)

L. Jaksztas, "On the derivative of the Hausdorff dimension of the quadratic Julia set" [Submitted for Publ] [**ER**] (*)

L. Jaksztas "Continuity of the Hausdorff dimension of the Julia-Lavaurs set", [Submitted for Publ] [**ER**] (*)

G. Havard, M. Urbanski, M. Zinsmeister "Variations of Hausdorff Dimension in the exponential family", [Submitted for Publ] (*)

Balazs Barany, Karoly Simon, "Sub-additive pressure for IFS with triangular maps", [Submitted for Publ] [**ESR**] (*)

Balazs Barany, Karoly Simon "Ledrappier-Young formula for diagonally self-affine IFS and an application", [Submitted for Publ] [**ESR**] (*)

Thomas Jordan, Michal Rams "Multifractal analysis of weak Gibbs measures for non-uniformly expanding C^1 maps". arXiv:0806.0727v2. [Submitted for Publ][**Two Teams**] (*)

Katrin Gelfert, Feliks Przytycki, Michal Rams, "Lyapunov spectrum for rational maps" arXiv:0809.3363v1. [Submitted for Publ][**Two Teams**] (*)

Tomasz Szarek, M. Ślęczka, M. Urbański, "On stability of some Markov semigroups" submitted to J. Statistical Physics. [Submitted for Publ]

Michal Rams, Karoly Simon "Projections of percolations", [Manuscript in preparation]

A. Badenska, Real analyticity of the Jacobian of invariant measures for hyperbolic meromorphic functions, Bulletin of LMS. **40** (2008) 1017-1024, [Journal][**ESR at Warwick, but work done prior to appointment**] (*)

A. Badenska, Rigidity theorem for some classes of transcedental meromorphic functions, [Submitted for Publ][**ESR**] (*)

A. Badenska, Misiurewicz parameters in the exponential family. [Manuscript in preparation] [**ESR**] (*)

Publications of the Finnish Team

K. Astala, A. Clop., J. Mateu, J. Orobitg and I. Uriarte-Tuero, "Improved Painlevé removability for bounded planar quasiregular mappings", in "Harmonic analysis, partial differential equations, and related topics", Contemp. Math. 428 (2008), 1-12. [Journal][**ER**] (*)

K. Astala, A. Clop., J. Mateu, J. Orobitg and I. Uriarte-Tuero, "Distortion of Hausdorff measures and improved Painlevé removability for bounded quasiregular mappings", Duke Math. J. 141 (2008), 539-571. [Journal] [**ER**] (*)

A. Clop, "Removable singularities for Hölder continuous quasiregular mappings in the plane" Ann. Acad. Sci. Fenn. Ser. A I Math. 32 (2007), 171-178. [Journal] [**ER**] (*)

A. Clop, "Nonremovable sets for Hölder continuous quasiregular mappings in the plane" Michigan Math. J. 55 (2007) no.1, 195-208. [Journal] [**ER**] (*)

A. Clop and X. Tolsa, "Analytic capacity and quasiconformal mappings with $W^{1,2}$Beltrami coefficient", Math. Res. Lett. 15 (2008), 779-793. [Journal] [**ER**] (*)

Astala, K., J. Gill, S. Rohde and E. Saksman. Optimal regularity for planar mappings of finite distortion. Ann. Inst. H. Poincar Anal. Non Linaire. [Accepted for Publ] (*)

Astala, K., Iwaniec, T. and G. Martin. Elliptic Partial Differential Equations and Quasiconformal Mappings in the Plane. Mathematical Series, Princeton University Press, 2009. [Accepted for Publ] (*)

A. Clop, D. Faraco, J. Mateu, J. Orobitg and X. Zhong, "Beltrami equations with coefficient in the Sobolev space $W^{1,p}$", Publ. Mat. [Accepted for Publ] [**ER**] (*)

Astala, K., Rohde, S., Saksman, E. and T. Tao. Random Quasiconformal Mappings. [Submitted for Publ] (*)

V. Chousionis and P. Mattila, Boundedness and convergence for singular integrals of measures separated by Lipschitz graphs. [Submitted for Publ] (*)

Publications of French Team:

Guy David, C^{1+a}-regularity for almost-minimal sets in $\mathbb{R}^n$. [Submitted for Publ] (*)

Guy David, Thierry De Pauw and Tatiana Toro, A generalization of Reifenberg's Theorem in $\mathbb{R}^3$, Geometric And Functional Analysis. [Accepted for Publ] (*)

Guy David, Hölder regularity for almost-minimal sets in $\mathbb{R}^n$, Annales de la Facult des Sciences de Toulouse. [Accepted for Publ] (*)

Guy David, Quasiminimal sets for Hausdorff measures, in Recent Developments in Nonlinear PDEs, Proceeding of the second symposium on analysis and PDEs (June 7-10, 2004), Purdue University, D. Danielli editor, 81–99, Contemp. Math. 439, Amer. Math. Soc., Providence, RI, 2007. [Article in Conf Proc] (*)

A. Avila, M. Lyubich and W. Shen, Parapuzzles of the Multibrot set and typical dynamics of unimodal maps. To appear in the Journal of the European Mathematical Society. [Accepted for publication] (*)

A. Avila, M. Lyubich and W. Shen, Combinatorial rigidity for unicritical polynomials, to appear in the Annals of Mathematics. [Accepted for publication] (*)

Alexander Blokh, Xavier Buff, Arnaud Chéritat and Lex Oversteegen. The solar Julia sets of basic quadratic Cremer polynomials. To appear in

Erg. Th. and Dyn. Sys. [Submitted for Publ] (*)

Xavier Buff and Adam Epstein. Bifurcation measure and postcritically finite rational maps. In Families and friends, edited by Dierk Schleicher, 2008. [Submitted for Publ][**Two Teams**] (*)

Xavier Buff, Adam Epstein, Sarah Koch and Kevin Pilgrim. On Thurston's pullback map. In Families and friends, edited by Dierk Schleicher, 2008. [Submitted for Publ][**Two Teams**] (*)

Xavier Buff and Carsten Petersen. On the size of linearziation domains. Math. Proc. Camb. Phil. Soc. 145: 443-456, 2008. [Submitted for Publ] [**Two Teams**] (*)

Xavier Buff and Adam Epstein. From local to global analytic conjugacies. Erg. Th. and Dyn. Sys., 27(4):1073-1094, 2007.[Journal][**Two Teams**]

Xavier Buff and Tan Lei. Dynamical convergence and polynomial vector fields. Journ. Diff. Geom., 77(1):1-41, 2007.[Journal]

Xavier Buff and Arnaud Chéritat. How regular can the boundary of a quadratic Siegel disk be? Proc. Amer. Math. Soc., 135(4):1073-1080, 2007.[Journal]

Xavier Buff and Arnaud Chéritat. The Yoccoz function continuously estimates the size of Siegel disks. Annals of Math, 164(1):265-312, 2006.[Journal]

A. Cheritat, Sur l'implosion parabolique, la taille des disque de Siegel & une conjecture de Marmi, Moussa et Yoccoz. [Submjtted for Publ] (*)

Xavier Buff and Johannes Rueckert. Virtual immediate basins of Newton maps and asymptotic values. IMRN, Article ID 65498:1-18, 2006.[Journal] [**Two Teams**]

[7] X. Buff and A. Chéritat, Quadratic Julia sets with positive area. [Submitted for Publ] (*)

P. Hubert, La premiere est de la combinatoire, les autres peuvent toutes etre considerees comme de la dynamique dans l'espace de Teichmueller. . [Manuscript]

B. Kuntal, [Manuscript in Preparation] [**ESR**] (*)

N. Bedaride, P. Hubert, *Billiard complexity in the hypercube*, Ann. Inst. Fourier, 57 (2007), no. 3, 719–738. [Journal]

P. Hubert, M. Schmoll, S. Troubetzkoy, *Modular fibers and illumination problems*, International Math. Research Notices Int. Math. Res. Not. IMRN, 8 (2008) [Journal]

Y. Cheung, P. Hubert, H. Masur, *Topological dichotomy and strict ergodicity for translation surfaces*, Ergodic Theory and Dynamical Systems, [Accepted for Publ]

P. Hubert, E. Lanneau, M. Möller, *The Arnoux-Yoccoz Teichmller disc*, GAFA, [Accepted for Publ]

P. Hubert, E. Lanneau, M. Möller, *Completely periodic directions and orbit closures of many pseudo-Anosov Teichmller discs in Q(1,1,1,1)*, Math. Annalen, [Accepted for Publ]

X. Bressaud, P. Hubert, A. Maass, *Persistence of wandering intervals in self-similar affine interval exchange transformations*, [Submitted for Publ]

P. Hubert, B. Weiss, *Dynamics on the infinite stair case surface*, [Submitted for Publ]

N. Haydn, S. Vaienti, The Rényi entropy function and the large deviation of short return times, to appear in Ergodic Theory and Dynamical Systems [Accepted for Publ]

H. Hu, S. Vaienti, Absolutely continuous invariant measures for non-uniformly expanding, to appear in Ergodic Theory and Dynamical Systems maps [Accepted for Publ]

N. Haydn, S. Vaienti, The compound Poisson distribution and return times in dynamical systems,to appear in Probability Theory and Related Fields [Accepted for Publ]

M. Abadi, S. Vaienti, Large deviations for short returns, to appear in Discrete and Continuous Dynamical Systems A . [Accepted for Publ]

N. Haydn, E. Lunedi, S. Vaienti, Averaged number of visits, Chaos, 17, 033119, 13 pages, [Journal]

C. Liverani, Ph. Marie, S. Vaienti, Random Classical fidelity, Journal of Statistical Physics 128, 4, 1079-1091, (2007) Journal of Statistical Physics. [Journal]

G. Mantica, S. Vaienti, The asymptotic behavior of the Fourier transform of Orthogonal Polynomials I: Mellin transform techniques, Ann. Inst. H. Poincare, 8, 2, (2007) [Journal]

S. Vaienti, Récurrence dans les syst'emes dynamiques, dans CHAOS ET SYSTEMES DYNAMIQUES - Elements Pour Une Epistemologie Auteur(s) : Sara Franceschelli, Tatiana Roque, Michel Paty diteur : Hermann (2007) [Chapter in Book]

V. Mayer "Ergodic Properties of sub-hyperbolic functions with Polynomial Schwarzian Derivatives". (with M. Urbanski) [Submitted for Publ]

V. Mayer "Thermodynamical Formalism and Multifractal Analysis for Meromorphic Functions of finite order. (with M. Urbanski) Memoir AMS [Accepted Publ]

V. Mayer "Geometric thermodynamical formalism and real analyticity for meromorphic functions of finite order. (with M. Urbanski) Ergodic Theory and Dynamical Systems 28 (2008), 915 - 946. [Journal]

V. Mayer "Fractal measures for meromorphic functions of finite order. (with M.Urbanski) Dynamical Systems, 22 (2007), 169-178. [Journal]

V. Mayer "The size of the Julia set of meromorphic functions. Math. Nachrichten [Submitted for Publ]

Shaun Bullett, Peter Haïssinsky. Pinching holomorphic correspondences, Conform. Geom. Dyn. 11 (2007), 65–89 (electronic). [Journal][**Two teams**]

[Sébastien Blachère, Peter Haïssinsky, Pierre Mathieu. Asymptotic entropy and Green speed for random walks on countable groups, Ann. Probab. 36 (2008), 1134–1152. [Journal]

Javier Aramayona, Peter Haïssinsky. A characterisation of plane quasiconformal maps using triangles, Publ. Mat. 52 (2008), 459–471. [Journal]

Peter Haïssinsky, Kevin M. Pilgrim. Thurston obstructions and Ahlfors regular conformal dimension, J. Math. Pures Appl. (9) 90 (2008), 229–241. [Journal]

Peter Haïssinsky, Kevin M. Pilgrim. Coarse expanding conformal dynamics, Astérisque, [Accepted for Publ]

Peter Haïssinsky. Géométrie quasiconforme, analyse au bord des espaces métriques hyperboliques et rigidités (d'après Mostow, Pansu, Bourdon, Pajot, Bonk, Kleiner...) Séminaire Bourbaki. Vol. 2007/2008, 2008. [Chapter in Book]

Peter Haïssinsky. A sewing problem in metric spaces Ann. Acad. Sci. Fenn. Math, [Accepted for Publ]

Peter Haïssinsky. Empilement de cercles et modules combinatoires. [Submitted for Publ]

Peter Haïssinsky, Kevin M. Pilgrim. Finite type coarse expanding conformal dynamics. [Submitted for Publ]

Sébastien Blachère, Peter Haïssinsky, Pierre Mathieu. Harmonic measures versus quasiconformal measures for hyperbolic groups hal-00290127, arXiv:math.PR/0806.3915, 2008. [Submitted for Publ]

V.Baladi, D.Smania: Linear response formula for piecewise expanding unimodal maps. Nonlinearity 21 (2008) 677-711. [Journal]

V.Baladi, S.Gouezel: Good Banach spaces for piecewise hyperbolic maps via interpolation. [Submitted for Publ]

J.Barral, M.Menzi: Multifractal analysis of Birkhoff averages on self-affine symbolic spaces. Nonlinearity 21 (2008) 2409-2425. [Journal]

B.Duplantier, S.Sheffiield: Liouville quantum gravity and KPZ, [Submitted for Publ]

J.Aramayona, P.Haissinsky: A characterization of plane quasiconformal mappings using triangles. Publ. Mat. 52 (2008) 459-471. [Journal]

P.Haissinsky, K.Pilgrim: Thurston obstructions and Ahlfors regular conformal distortion. J. Math. Pures et appliqus 9, 90 (2008) 229-241. [Journal]

V.Mayer, M.Urbanski: Thermodynamic formalism and multifractal analysis of meromorphic functions of finite order. Memoir AMS, to appear. [Accepted for Publ]

J.F. Le Gall, F.Paulin: Scaling limit of bipartite planar maps are homeomorphic to the 2-sphere. GAFA 18 (2008) 893-918. [Journal]

C. Petersen, Tan Lei: Analytic coordinates that record the cubic dynamics. To appear in Family and Friends, editor: D. Schleicher. [Accepted for Publ]**Two Teams**]

Publications of the Barcelona Team

N. Fagella and A. Garijo, The Parameter Planes of $\lambda z^m \exp(z)$ for $m \geq 2$, Comm. Math. Phys., **273** (2007), pp. 755–783. [Journal] (*)

A. Garijo, X. Jarque and M. Moreno Rocha, *Joining polynomial and exponential combinatorics for some entire maps.* [Submitted for publication] (*)

P. Dominguez, N. Fagella, Residual Julia sets of rational and transcendental functions, In Transcendental dynamics and complex analysis, Cambridge University Press, 2007. [Chapter in Book] (*)

R. Berenguel, N. Fagella, An entire transcendental family with an invariant Siegel disk and two singular values. [Submitted for publication] (*)

R. L. Devaney and A. Garijo, *Julia sets coverging to the unit disk,* Proc. Amer. Math. Soc., **136** (2008), pp-981–988. [Journal] (*)

P. Blanchard, Robert L. Devaney, A. Garijo and E. Russell, *A Generalized version of the McMullen Domain,* Int. J. Bifurcation and Chaos, **18** (2008), pp. 2309–2318. [Journal] (*)

A. Garijo and S. Marotta, *Singular perturbation of z^n with a pole on the unit circle.* Accepted for publication in the J. of Difference Equations and Applications. [Accepted for Publ] (*)

P. Blanchard, Robert L. Devaney, A. Garijo, S. Marotta and E. Russell, *Rabbits, Basilicas and other Julia sets wrapped in Sierpinski Carpets.* To

appear in "Complex dynamics: families and friends", AK Peters Ltd (2008). [Submitted for publication] (*)

A. Garijo, A. Gasull and X. Jarque, *Local and global portrait of equation $z' = f(z)$*, Discrete Contin. Dynam. Systems **17** (2007), pp.309–329. [Journal] (*)

A. Garijo, A. Gasull and X. Jarque, *Simultaneous bifurcation of limit cycles from two nests of periodic orbits,* J. Math. Anal. Appl., **341** (2008), pp. 813–824. [Journal] (*)

A. Garijo, A. Gasull and X. Jarque, *A note on the period function for certain planar vector fields.* [Submitted for publication] (*)

Jörn Peter, Hausdorff measure of Julia sets of the exponential family, [Manuscript in Preparation] **[Now ER in Barcelona]**

Joaquim Ortega-Cerd, Bharti Pridhnani, *The Polya-Tchebotarov problem* arxiv0809.2483 [Preprint]

Carroll, Tom; Ortega-Cerd, Joaquim, *Configurations of balls in Euclidean space that Brownian motion cannot avoid.* Ann. Acad. Sci. Fenn. Math. 32 (2007), no. 1, 223–234. [Journal]

Tere M. Seara, Jordi Villanueva, *Numerical computation of the asymptotic size of the rotation domain for the Arnold family* Physica D [Accepted for Publ]

Publications of German Team

W. Bergweiler, Newton's method and Baker domains, arXiv:0710.1147v1. [Submitted for Publ] (*)

Walter Bergweiler, Philip J. Rippon, Gwyneth M. Stallard: Dynamics of meromorphic functions with direct or logarithmic singularities, Proc. London. Math. Soc. 97 (2008), 368-400.
arXiv:0704.2712. [Submitted for Publ] **[Two Teams]** (*)

Walter Bergweiler, Boguslawa Karpinska, Gwyneth M. Stallard: The growth rate of an entire function and the Hausdorff dimension of its Julia set, arXiv:0807.2363. [Submitted for Publ]**[Three Teams]** (*)

M. Aspenberg, Rational hyperbolic maps cluster around Misiurewicz maps, arXiv:0804.1106 [Submitted for Publ] **[ER]** (*)

Magnus Aspenberg, Michael Yampolsky, "Mating Non-Renormalizable Quadratic Polynomials", Comm Math Phys, 2008. [Journal]**[ER]** (*)

Magnus Aspenberg and J. Graczyk, Measure and dimension for semi-hyperolic rational maps of degree 2. [Submitted for Publ][**ER**] (*)

Magnus Aspenberg, Yet another formula for the Catalan numbers, [Manuscript in preparation] [**ER**] (*)

Magnus Aspenberg, The dual nest, [Manuscript in preparation] [**ER**]

Magnus Aspenberg, Some matings of cubic polynomials. [Manuscript in preparation] [**ER**] (*)

Magnus Aspenberg, and M. Yampolsky, Mating non-renormalizable quadratic polynomials, arXiv:math/0610343v4. [Submitted for Publ] [**ER**] (*)

W. Bergweiler, A. Fletcher, J. K. Langley and J. Meyer, The escaping set of a quasiregular mapping, *Proc. Amer. Math. Soc.* 137 (2009), 641-651. [Journal] (*)

W. Bergweiler, The size of Wiman-Valiron disks, to appear in *Complex Var. Elliptic Equ.* [Submitted for Publ] (*)

W. Bergweiler and A. Eremenko, Meromorphic functions with linearly distributed values and Julia sets of rational functions, *Proc. Amer. Math. Soc.* DOI: 10.1090/S0002-9939-08-09788-8 [Journal]

Lasse Rempe and Dierk Schleicher , *Bifurcations in the space of exponential maps*, *Inventiones Mathematicae* **175**:1 (2009), 103–135. DOI: 10.1007/s00222-008-0147-5. Preprint Nr. 3, Institute for Mathematical Sciences at Stony Brook (2004). ArXiv math.DS/0311480. [Journal][**Two Teams**] (*)

John Hubbard, Dierk Schleicher, and Mitsuhiro Shishikura, *Exponential Thurston maps and limits of quadratic differentials*, *Journal of the American Mathematical Society* **22** (2009), 77–117. [Journal] (*)

Henk Bruin and Dierk Schleicher, *Admissibility of kneading sequences and structure of Hubbard trees for quadratic polynomials*, *Journal of the London Mathematical Society* **78** 2, 502–522; doi: 10.1112/jlms/jdn033 (2008). ArXiv:0801.4662. [Journal] (*) [**Two Teams**]

Henk Bruin, Alexandra Kaffl and Dierk Schleicher, *Existence of quadratic Hubbard trees*, *Fundamenta Mathematicae*, [Accepted for Publ] (*) [**Two Teams**]

Markus Förster and Dierk Schleicher, *Parameter rays for the complex exponential family*, *Ergodic Theory and Dynamical Systems*, to appear; doi:10.1017/S0143385708000394. ArXiv math.DS/050597. [Submitted for Publ] (*)

Dierk Schleicher, *Newton's method as a dynamical system: efficient root finding of polynomials and the Riemann ζ function.* In: M. Lyubich, M.

Yampolsky (eds), *Holomorphic Dynamics and Renormalization: a Volume in Honour of John Milnor's 75th birthday.* Fields Institute Communications **53** (2008), 213–224. [Chapter in Book] (*)

Lasse Rempe and Dierk Schleicher, *Bifurcation loci of exponential maps and quadratic polynomials: Local Connectivity, Triviality of Fibers, and Density of Hyperbolicity.* In: M. Lyubich, M. Yampolsky (eds), *Holomorphic Dynamics and Renormalization: a Volume in Honour of John Milnor's 75th birthday.* Fields Institute Communications **53** (2008), 177–196. [Chapter in Book] (*) [**Two Teams**]

Mihai Bailesteanu, Vlad Balan, and Dierk Schleicher, *Hausdorff dimension of exponential parameter rays and their endpoints*, *Nonlinearity* **21** (2008), 113–120. [Journal] (*)

Bastian Laubner, Dierk Schleicher, and Vlad Vicol, *A combinatorial classification of postsingularly preperiodic complex exponential maps*, (2006). *Discrete and Continuous Dynamical Systems* **22** 3 (2008), 663–682. ArXiv math.DS/0602602. [Journal] (*)

Markus Förster, Lasse Rempe, and Dierk Schleicher, *Classification of escaping exponential maps*, *Proceedings of the American Mathematical Society* **136** 2 (2008), 651–663. [Journal] (*) [**Two Teams**]

Lasse Rempe, and Dierk Schleicher, *Combinatorics of bifurcations in exponential parameter space*, , ArXiv math.DS/0408011. *Transcendental dynamics and complex analysis* (Phil Rippon and Gwyneth Stallard, eds), London Math. Soc. Lecture Note Ser. **348**, Cambridge University Press (2008), 317–370. [Journal] (*) [**Two Teams**]

Günter Rottenfußer and Dierk Schleicher, *Escaping points of the cosine family*, ArXiv math.DS/0403012. *Transcendental dynamics and complex analysis* (Phil Rippon and Gwyneth Stallard, eds), London Math. Soc. Lecture Note Ser. **348**, Cambridge University Press (2008), 396–424. [Journal] (*)

Dierk Schleicher, *Complex dynamics: families and friends*, edited volume in honor of John Hubbard, 17 contributions, approx. 650 pp; contributors include Mikhail Lyubich, John Milnor, Mitsuhiro Shishikura, William Thurston, Jean-Christophe Yoccoz and others. AK Peters, to appear (2009). ISBN 13978-1-56881-450-6. [Book] (*)

On the geometry and dynamics of iterated rational maps. By William Thurston, edited by Dierk Schleicher and Nikita Selinger, with an appendix by Dierk Schleicher. In: *Complex Dynamics: Families and Friends*, ed. Dierk Schleicher, A.K. Peters, Wellesley/MA (2009), pp. 3–135. [Chapter in Book]

Nikita Selinger, *On the Boundary Behavior of Thurston's Pullback Map*, in: *Complex Dynamics: Families and Friends*, ed. Dierk Schleicher, A.K. Peters, Wellesley/MA (2009), pp. 585–595. [Chapter Book] (*)

Vladlen Timorin, *The external boundary of M_2*, In: M. Lyubich, M. Yampolsky (eds), *Holomorphic Dynamics and Renormalization*, in Honour of John Milnor's 75th birthday. Fields Institute Communications **53** (2008), 225–267 [Journal]

Vladlen Timorin, *Topological regluing of rational functions*, [Submitted for Publ] (*)

Vladlen Timorin, *On partial semi-conjugacies of quadratic polynomials'*, [Submitted for Publ] (*)

M. Kesseböhmer, M. Stadlbauer, B.O. Stratmann, Lyapunov spectra for KMS states on Cuntz-Krieger algebras. Math. Z. 256, 871-893 (2007). [Journal]

M. Denker, S. Koch: On the uniqueness of the maximum of the paths of random walks. J. Statistical Planning & Inference **137**, 2007, 659–668. [Journal]

M. Denker, A. Imai, S. Koch: Dirichlet forms on quotients of shift spaces. Colloquium Mathematicum **107**, 2007, 57–80. [Journal]

M. Denker, N. Kan: On Sevast'yanov's theorem. Stat. & Probab. Letters **77**, 2007, 272–279. [Journal]

M. Denker, Z. Kabluchko: An Erdös-Renyi law for mixing processes. Probability and Mathematical Statistics **27**, 2007, 139-149. [Journal]

M. Denker, M. Kifer, M. Stadlbauer: Conservativity for random Markov fibred systems. Ergodic Theory & Dynam. Systems **27**, 2007, 1-19. [Journal] (*)

M. Denker, H. Holzmann: Markov partitions for fibre expanding systems. Coll. Math. **110** (2008), 485–492. [Journal]

M. Denker, K. Hattori: Recurrence of self-repelling walks on the pre-Sierpiński gasket and $\mathbb{Z}$. Stochastics and Dynamics **8** (2008), 155–172. [Journal]

M. Denker, A. Min: A central limit theorem for measurements on the logarithmic scale and its application to dimension estimates. J. Multivariate Analysis **99** (2008), 665–683. [Journal]

M. Denker, M. Kifer, M. Stadlbauer: Thermodynamic formalism for random countable Markov shifts. Discrete and Cont. Dynam. Syst. **22** (2008), 131–164. [Journal] (*)

Sachar Kabluchko: (2007) Extreme-value analysis of self-normalized increments. [Thesis]

Achim Wübker: (2008) L^2-Spektraltheorie für Markov-Operatoren. [Thesis]

Anna Levina: (2008) Dynamical systems approach to self-organized criticality in neural networks. [Thesis]

Jörn Peter, Hausdorff Measure of Escaping and Julia Sets of Exponential Maps, University of Kiel, 2008. [Thesis][**Now ER in Barcelona**]

Publication of Danish Team

Eva Uhre, On the Parabolic lines Per1 (e2pip/q) in the Moduli Space of Quadratic Rational Maps, Thesis RUC, 2008. [Thesis] (*)

Anja Kabelka, Bicritical rational maps: Dynamical limits and ideal limit points of period m curves, accepted for publication in the issue of Journal of Difference Equations and Applications (celebrating the 60-th birthday of Robert Devaney). [Accepted for Publ] [**ER**] (*)

Anja Kabelka, Bounded hyperbolic components of bicritical rational maps, in preparation. [Accepted for Publ] [**ER**] (*)

Anja Kabelka, Quadratic rational maps: Dynamical limits and the disappearing limb of the real Mandelbrot set, in preparation. [Manuscript in Preparation] [**ER**] (*)

C. L. Petersen and P. Roesch, *The Yoccoz Combinatorial Analytic Invariant*, Fields Institute Communications, Volume **53**, 2008. [Journal] [**Two Teams**] (*)

Carsten Lunde Petersen [RUC] and Pascale Roesch [CNRS], *Parabolic Tools*. [Submitted for publication] [**Two Teams**] (*)

Bodil Branner, *Dynamcs*, Chapter in book: The Princeton Companion to Mathematics, Ed.Timothy Gowers. pp. 493 - 510 [Chapter in Book]

Team at TEI, Macedonia

Mouratidis Christoforos, Geometric characterization for the Blaschke products, [Submitted for Publ] (*)

Antonis Bisbas and Nina Snigireva, Divergence points and normal numbers, [Manuscript in Preparation][**ESR in TEI, Greece**][**Two teams**] (*)

Team at Geneva

J. Bricmont and A. Kupiainen: Random walks in space time mixing environments, arXiv:0805.3455 [Submitted for Publ]

J. Bricmont and A. Kupiainen: Approach to equilibrium for the phonon Boltzmann equation, Commun.Math.Phys. 281, 179-202 (2008) [Journal]

D. Chelkak and S. Smirnov: Discrete complex analysis on isoradial graphs, arXiv:0810.2188. [Submitted for Publ] (*)

B. Duplantier and I.A. Binder: Harmonic measure and Winding of Conformal Random Paths: A Coulomb Gas Perspective, Nuclear Physics B 802 [FS], 494-513, 2008 [Journal]

B. Duplantier and S. Sheffield: Liouville Quantum Gravity and KPZ, arXiv:0808.1560 [Submitted for Publ]

R. Malaquias, S. Rohde, V. Sessak, M. Zinsmeister: Regularized growth processes, Experimenta Math., [Submitted for Publ] (*)

S. Smirnov: Conformal invariance in random cluster models. I. Holomorphic fermions in the Ising model, arXiv:0708.0039 [Submitted for Publ] (*)