

**List of publications *written by or in collaboration with*
appointed ESR & ER researchers of the PHD network
since the start of the PHD project on Nov. 1, 2004**
(update as of Dec. 10, 2007)

- 1 Alon, N., Benjamini, I., Lubetzky, E. and Sodin, S.: Non-backtracking random walks mix faster, 18 pp. (submitted)
- 2 Alonso-Gutierrez, D.: About the isotropy constant of random convex sets. (preprint, July 2007)
- 3 Alonso-Gutierrez, D.: On an extension of the Blaschke-Santaló inequality. (in preparation)
- 4 Artstein-Avidan, S., Friedland, O. and Milman, V.D.: Geometric applications of Chernoff-type estimates and a ZigZag approximation for balls. Proceedings AMS 134 (2006), 1735-1742.
- 5 Artstein-Avidan, S., Friedland, O. and Milman, V.D.: Some geometric applications of Chernoff-type estimates. GAFA Sem. Notes, Springer LNM (2006). (to appear)
- 6 Artstein-Avidan, S., Friedland, O., Milman, V.D. and Sodin, S.: Polynomial bounds for Large Bernoulli sections of $(l_1)^N$. (to appear in Isr. J. Math., v.156, 2006)
- 7 Aubrun, G. and Fradelizi, M.: Two-point symmetrization and convexity. Archiv der Mathematik 82 (2004), 282-288.
- 8 Aubrun, G. and Szarek, S.J.: Tensor product of convex sets and the volume of separable states on N qudits. Published in: Physical Review A. (2006)
- 9 Aubrun, G.: A sharp small deviation inequality for the largest eigenvalue of a random matrix. Seminaire de probabilités (2005).
- 10 Aubrun, G.: Random points in the unit ball of ell_p^n . Positivity. (to appear)
- 11 Aubrun, G.: Sampling convex bodies: a random matrix approach. Proceedings of the American Mathematical Society. (to appear)

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- 12 Averkov G. and Bianchi, G.: Retrieving convex bodies from restricted covariogram functions. (Preprint 2006) (article)
- 13 Averkov, G. and Bianchi, G.: Determination of convex polygons by covariograms generated by valuations. (to appear)
- 14 Averkov, G. and Düvelmeyer, N.: Metric capacity of normed spaces, Monatsh. Math., 10pp. (to appear)
- 15 Averkov, G. and Heppes, A.: Constant width in terms of boundary cuts, Rev. Roumaine Math. Pures Appl., 50 (2005), no. 5-6, pp. 423-429.
- 16 Averkov, G., Makai, Jr., E. and Martini, H.: A characterization of central symmetry for convex bodies in Minkowski spaces.
- 17 Averkov, G.: A monotonicity lemma in higher dimensions, J. Geom., 84 (2005), no.1-2, pp. 23-29.
- 18 Averkov, G.: Circumradius versus side lengths of triangles in linear normed spaces, Colloq. Math., 12pp. (to appear)
- 19 Averkov, G.: On boundary arcs joining antipodal points of a planar convex body.
- 20 Averkov, G.: On planar convex bodies of given Minkowskian thickness and least possible area, Archiv der Mathematik, 84 (2005), no. 2, pp. 183-192.
- 21 Averkov, G.: On the inequality for volume and Minkowskian thickness, Canad. Math. Bull., 49 (2006), pp. 185-195.
- 22 Avilés A. and Moreno, Y.: Automorphisms in spaces of continuous functions on Valdivia compacta. (submitted for publication)

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(update as of Dec. 10, 2007)**

- 23 Avilés, A. and Kalenda, O.: Fiber orders and compact sets of uncountable weight. (Preprint)
- 24 Avilés, A.: Adequate families on coanalytic sets. (submitted for publication)
- 25 Avilés, A.: Commutative rings with finite quotient fields. *Comm. Algebra* 33 (2005), no. 3, 727-736.
- 26 Avilés, A.: Countable products of spaces of finite sets. *Fund. Math.* 186 (2005), no. 2, 147-159.
- 27 Avilés, A.: Extensions of Boolean isometries. *Discrete Math.* 297 (2005), no. 1-3, 1-12.
- 28 Avilés, A.: Radon-Nikodym compact spaces of low weight and Banach spaces. *Studia Math.* 166 (2005), no. 1, 71-82.
- 29 Avilés, A.: The number of weakly compact sets which generate a Banach space. *Israel J. Math.* (to appear)
- 30 Avilés, A.: The unit ball of the Hilbert space in its weak topology. *Proc. A.M.S.* (to appear)
- 31 Ball, K.M., Martín Márquez, V. and Naor, A.: Rapid entropy growth for Markov chains with a spectral gap. (in preparation)
- 32 Barthe, F. and Zhang, Z.L.: Functional inequalities for harmonic measures on spheres. (in preparation)
- 33 Bednorz, W. and Latuszyski, K.: A few Remarks on Fixe Width Output Analysis for Markov Chain Monte Carlo by Jones at al. *JASA.* (accepted for publication)

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- 34 Bednorz, W.: A Note on a Mienshov-Rademacher Inequality. Bulletin of Polish Academy of Science, 54, No. 1 (2006), 2006
- 35 Bednorz, W.: A Note on Convergence Rates for Geometrically Ergodic Markov Chains (2007). (submitted)
- 36 Bednorz, W.: A Sobolev Inequality and its Applications. Studia Mathematica, 176, No. 2 (2006), 95-112.
- 37 Bednorz, W.: A Theorem on Majorizing Measures. Annals of Probability, 34, No. 5 (2006), 1771-1781.
- 38 Bednorz, W.: Greedy Bases are Best for m-term Approximation. Constructive Approximation (2006). (accepted for publication)
- 39 Bednorz, W.: Regularity of Random Processes Using Net-Approximation., submitted to Electronic Journal of Probability (2006). (submitted)
- 40 Bednorz, W.: The Holder Continuity of Random Processes. Journal of Theoretical Probability (2006). (accepted for publication)
- 41 Benassi, C. and D'Ercole, G.: An algorithm for reconstructing a convex polygon from its covariogram. (in preparation)
- 42 Benassi, C. and D'Ercole, G.: Covariograms of nonconvex sets. (in preparation)
- 43 Bukh, B. and Sudakov, B.: Induced subgraphs of Ramsey graphs with many distinct degrees. Journal of Combinatorial Theory Series B, volume 97 (2007), 612-619.
- 44 Bukh, B.: A point in many triangles. Electronic Journal of Combinatorics, volume 13 (2006), N10.

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- 45 Bukh, B.: Maximum pebbling number of graphs of diameter three. Journal of Graph Theory, volume 52 (2006), 353-357.
- 46 Bukh, B.: Measurable sets with excluded distances. (submitted)
- 47 Bukh, B.: Non-trivial solutions to a linear equation in integers (submitted)
- 48 Castillo, J.M.F. and Suárez, J.: Extending operators into Lindenstrauss spaces, Israel Journal of Mathematics. (accepted for publication)
- 49 Castillo, J.M.F., Moreno, Y. and Suárez, J.: On the Lindenstrauss-Pelczynski spaces, published in Studia Mathematica 174, no. 3, 213-231.
- 50 Cerny, J., Kyncl, J. and Toth, G.: Improvement on the decay of crossing numbers. (submitted)
- 51 Chen, S.R., Li, S.G. and Zhang, Z.L.: Lattice Dynamical System for the NLS⁺ Equation, Journal of Math. (PRC), Vol.24, No. 2 (2004), 119-123.
- 52 Conlon, D., Jungic, V. and Radoicic R.: On the existence of rainbow 4-term arithmetic progressions, Graphs and Combinatorics. (accepted for publication)
- 53 Conlon, D.: A new upper bound for diagonal ramsey numbers. (submitted to Annals of Mathematics)
- 54 Conlon, D.: Rainbow solutions of linear equations over \mathbb{Z}_p , Discrete Mathematics, Vol. 306, Issue 17, pp. 2056-2063.
- 55 Dvorak, Z., Jelinek, V., Kral, D., Kyncl, J. and Saks, M.: Three optimal algorithms for balls of three colors, STACS 2005, Lecture Notes in Computer Science 3404, 206-217, Springer, Berlin, 2005.

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- 56 Fleury, B., Guédon, O., and Paouris, G.: Mean width of L_p -centroid bodies. (Preprint 2006)
- 57 Gatzouras, D., Giannopoulos, A. and Markoulakis, N.: Lower bound for the maximal number of facets of a 0/1 polytope. Discrete and Computational Geometry, Volume 34 (2005), 331-349.
- 58 Gatzouras, D., Giannopoulos, A. and Markoulakis, N.: On the maximal number of facets of 0/1 polytopes. GAFA Seminar Volume. In Geometric Aspects of Functional Analysis, Lecture Notes in Mathematics 1910 (2007), 117-125.
- 59 Gerbner, D. and Patkos, B.: 1-chain profile vectors. (submitted for publication)
- 60 Gerbner, D. and Patkos, B.: Profile vectors in the lattice of subspaces. (submitted for publication)
- 61 Giannopoulos, A, Pajor, A. and Paouris, G.: A note on subgaussian estimates for linear functionals on convex bodies, Proc. Amer. Math. Soc. 135 (2007), 2599-2606.
- 62 Gruber, P.M. and Schuster, F.E.: An arithmetic proof of John's ellipsoid theorem. Archiv der Mathematik, Volume 85, no. 1 (2005), 82-88.
- 63 Guédon, O. and Paouris, G.: Concentration of mass on the Schatten classes. Annales of Institut Henri Poincare, Probabilités et Statistiques. (to appear)
- 64 Haak, B.H., van Neerven, J.M.A.M. and Veraar, M.C.: A stochastic Datko-Pazy theorem. Journal of Mathematical Analysis and Applications, Volume 329, Issue 2, (15 May 2007), 1230-1239.
- 65 Haberl, C. and Ludwig, M.: A characterization of L_p intersection bodies. In: International Mathematics Research Notices 2006, Art ID 10548.
- 66 Haberl, C.: L_p intersection bodies. (Preprint)

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- 67 Haroske, D.D. and Piotrowska, I.: Atomic decomposition of function spaces with Muckenhoupt weights, and some relation to fractal analysis, *Mathematische Nachrichten*. (to appear)
- 68 Hernández Cifre M.A. and Saorín, E.: On the roots of the Steiner polynomial of a 3-dimensional convex body. *Adv. Geom.* 7 (2007), 275-294.
- 69 Hernández Cifre, M.A. and Saorín, E.: Some geometric properties of the roots of Steiner's polynomial. *Rend. Circ. Mat. Palermo* 77 (2) (2006), 319-332.
- 70 Heveling, M. and Reitzner, M.: Poisson-Voronoi approximation. (Preprint)
- 71 Hytönen, T. and Veraar, M.C.: On Besov regularity of Brownian motions in infinite dimensions. (submitted)
- 72 Jelinek, V., Kyncl, J., Stolar, R. and Valla, T.: Monochromatic triangles in two-colored plane. (submitted)
- 73 Jiang, Y.W., Miao, Y. and Zhang, Z.L.: Moderate deviation of R/S statistic, *Chinese Annals of Mathematics*. (to appear)
- 74 Kalton, N.J., van Neerven, J.M.A.M., Veraar, M.C. and Weis, L.: Embedding vector-valued Besov spaces into spaces of γ -radonifying operators. *Mathematische Nachrichten*. (accepted for publication)
- 75 Kalton, N.J.: Koldobsky, A., Yaskin, V. and Yaskina, M.: The geometry of L_0 . *Canadian J. Math.* (to appear)
- 76 Kamenov E. and Mutafchiev L.: The Limiting Distribution of the Trace of a Random Plane Partition. In: *Acta Math. Hung.* (submitted)
- 77 Khorunzhy, O., Shcherbina, M. and Vengerovsky, V.: Eigenvalue distribution of large random graphs, *Journal of Mathematical Physics*, Volume 45, No. 4 (2004), 1648-1672.

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- 78 Koldobsky, A., Pajor, A. and Yaskin, V.: Inequalities of the Kahane-Khinchin type and sections of L_p -balls. (submitted)
- 79 Koldobsky, A., Yaskin, V. and Yaskina, M.: Modified Busemann-Petty problem on sections on convex bodies, Israel J. Math. 154 (2006), 191-208.
- 80 Kyncl, J. and Tancer, M.: The maximum piercing number for some classes of convex sets with $(4, 3)$ -property. (in preparation)
- 81 Kyncl, J. and Valtr, P.: On edges crossing few other edges in simple topological complete graphs, Graph Drawing 2005, Lecture Notes in Computer Science 3843, 274-284, Springer, Berlin, 2006.
- 82 Kyncl, J., Pach, J. and Toth, G.: Long Alternating Paths in Bicolored Point Sets, Graph Drawing 2004, Lecture Notes in Computer Science 3383, 340-348, Springer, Berlin, 2005.
- 83 Kyncl, J.: Enumeration of simple complete topological graphs. (in preparation)
- 84 Kyncl, J.: The complexity of several realizability problems for abstract topological graphs. (in preparation)
- 85 McDiarmid, C.J.H. and Müller, T.: On the chromatic number of random geometric graphs. (Preprint)
- 86 McDiarmid, C.J.H. and Müller, T.: On two point concentration in random geometric graphs. (Preprint)
- 87 Moura, S.D., Piotrowska, I. and Piotrowski, M.: Non-smooth atomic decompositions of anisotropic function spaces, Studia Mathematica. (to appear)
- 88 Mutafchiev L. and Kamenov E. :The Number of Parts of Given Multiplicity in a Random Integer Partition. In: Pliska St. Math. Bulg. (accepted for publication)

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- 89 Mutafchiev L. and Kamenov E.: Asymptotic Formula for the Number of Plane Partitions of Positive Integers. In: C. R. Acad. Bulg. Sci. 59, No. 4, 361-366 (2006).
- 90 Opshtein, E.: Maximal Symplectic packings of P^2 , (submitted for publication to a Journal) (Preprint on arxiv)
- 91 Paouris, G.: Concentration of mass in convex bodies. Geometric and Functional Analysis. (to appear)
- 92 Paouris, G.: Concentration of mass on isotropic convex bodies. Comptes Rendus Mathematique, 342 (2006), 179-182.
- 93 Piotrowska, I.: Entropy and approximation numbers of embeddings between weighted Besov spaces, Banach Center Publications. (submitted)
- 94 Piotrowska, I.: The influence of Muckenhoupt weights on the behaviour of entropy numbers and approximation quantities in spaces on fractals. (in preparation)
- 95 Piotrowska, I.: Traces on fractals of function spaces with Muckenhoupt weights, Functiones et Approximatio XXXVI (2006), 95-117.
- 96 Pivovarov, P.: Random convex bodies lacking symmetric projections, revisited through decoupling. Geometric Aspects of Functional Analysis (GAFA), Israel Seminar 2004-2005, Lecture Notes in Mathematics 1910, 255-264.
- 97 Pivovarov, P.: Volume thresholds for Gaussian and spherical random polytopes and their duals. (submitted to Studia Mathematica)
- 98 Schneider, R. and Schuster, F. (ESR-y1 in Florence, ER-y2 in Freiburg): Rotation invariant Minkowski valuations. Int. Math. Res. Notices, vol. 2006, Article ID 72894, pages 1-20. Nodes involved: Freiburg and Vienna (Task II.5)
- 99 Schneider, R. and Schuster, F. (ESR-y1 in Florence, ER-y2 in Freiburg): Rotation Invariant Minkowski Classes of Convex Bodies. In: Mathematika. (to appear) .Nodes involved: Freiburg and Vienna (Task II.1)

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- 100 Schuster, F.: Convolutions and multiplier transformations of convex bodies. Trans. Amer. Math. Soc. (to appear)
- 101 Schuster, F.: Volume inequalities for additive maps of convex bodies. Mathematika. (to appear)
- 102 Sodin, S.: An isoperimetric inequality on the ℓ_p balls. (submitted for publication) (arxiv preprint: math.PR/0607398)
- 103 Suárez, J. and Weis, L.: Interpolation of Banach spaces with the γ -method, published in: Methods in Banach Space Theory, London Mathematical Society Lecture Note Series (No. 337) (conference proceedings).
- 104 Valdimarsson, S.I.: On the Hessian of the Optimal Transport Potential. (Preprint)
- 105 Valdimarsson, S.I.: Optimisers for the Brascamp-Lieb Inequality. (Preprint)
- 106 van Neerven, J.M.A.M. and Veraar, M.C.: On the action of Lipschitz functions on vector-valued random sums. Archiv Math. 85 (Basel) (2005), 544-553.
- 107 van Neerven, J.M.A.M. and Veraar, M.C.: On the stochastic Fubini theorem in infinite dimensions. In: "Stochastic Partial Differential Equations and Applications - VII" (Levico Terme, 2004), Lecture Notes in Pure and Applied Mathematics, Volume 245, CRC Press,
- 108 van Neerven, J.M.A.M., Veraar, M.C. and Weis, L.: Conditions for stochastic integrability in UMD Banach spaces. (Preprint)
- 109 van Neerven, J.M.A.M., Veraar, M.C. and Weis, L.: Ito's formula in UMD Banach spaces and regularity of solution of the Zakai equation. (submitted)
- 110 van Neerven, J.M.A.M., Veraar, M.C. and Weis, L.: Stochastic equations in UMD Banach spaces. (Preprint)

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- 111 van Neerven, J.M.A.M., Veraar, M.C. and Weis, L.: Stochastic integration in UMD Banach spaces. *Annals of Probability*. (accepted for publication)
- 112 Vengerovsky, V.: Asymptotics of correlators for ensembles of sparse random matrices, *Journal of Mathematical Physics, Analysis, Geometry*, Volume 11, No. 2 (2004), 135-160.
- 113 Vengerovsky, V.: Eigenvalue distribution of random matrix ensemble with correlated entries appearing in the random graphs theory, *Journal of Mathematical Physics, Analysis, Geometry*, Volume 1, No. 1 (2005), 35-52.
- 114 Vengerovsky, V.: Limits of the moments of the spectral density of some ensemble of sparse random matrices with dependent entries, *Reports of the National Academy of Science of Ukraine*, No. 9 (2005), 7-12.
- 115 Veraar, M.C. and Zimmerschied, J.: Non-autonomous stochastic Cauchy problems in Banach spaces. (submitted)
- 116 Veraar, M.C.: Continuous local martingales and stochastic integration in UMD Banach spaces. (submitted)
- 117 Veraar, M.C.: Randomized UMD Banach Spaces and Decoupling Inequalities for Stochastic Integrals. *Proc. Amer. Math. Soc.* 135 (2007), 1477-1486.
- 118 Wu, L.M. and Zhang, Z.L.: Talagrand's T_2 transportation inequality and Log-Sobolev inequality for dissipative SPDEs and applications to reaction-diffusion equations, *Chinese Annals of Mathematics*, 27B (3), (2006), 243-262.
- 119 Wu, L.M. and Zhang, Z.L.: Talagrand's T_2 transportation inequality w.r.t. a uniform metric for diffusion, *Acta. Math. Appl. Sinica, English series*, Vol.20, No.3 (2004), 357-364.
- 120 Wu, L.M., Yao, N. and Zhang, Z.L.: Uniqueness of one-dimensional Sturm-Liouville operator with potential on $L^1(I,r)$. (accepted for publication)
- 121 Yaskin, V. and Yaskina, M.: Centroid bodies and comparison of volumes. *Indiana University Math. J.* 55 No. 3 (2006), 1175-1194.

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122 Yaskin, V.: A solution to the lower dimensional Busemann-Petty problem in the hyperbolic space. J. Geom. Anal. 16, No. 4 (2006), 735-745.

123 Yaskin, V.: Modified Shephard's problem on projections of convex bodies. (submitted)

124 Yaskin, V.: The Busemann-Petty problem in hyperbolic and spherical spaces. Advances in Math. 203 (2006), 537-553.

125 Yaskina, M.: Non-intersection bodies all of whose central sections are intersection bodies. In: Proceedings of A.M.S. (to appear)