

V.D. MILMAN, Dr.Sc.

PUBLICATIONS – ARTICLES

1. V.D. Milman, A.D. Myshkis
On the stability of motion in the presence of impulses.
Sibirsk. Mat. v. 1, 233-237 (1960); M.R. Vol. 25, A3325, 1962.
2. V.D. Milman
On a transformation operator for Sturm-Liouville equations in the non-selfadjoint case.
Dokl. Akad. Nauk SSSR, 142, 1019 (1962); M.R. vol. 25, 2263, M.R. v. 19, 4943.
3. V.D. Milman
On a transformation operator for Sturm-Liouville equations in the non-selfadjoint case.
Matem. Sb. (N.S.), 59(101), 145-164 (1962).
4. V.D. Milman, A.D. Myshkis
Random shocks in linear dynamical systems; “Approximate methods of solving differential equations”
Izdat. Akad. Nauk Ukraine SSR, Kiev, 64-81, 1963; M.R. v. 28, 5466.
5. D.P. Milman, V.D. Milman
Some geometric properties of non-reflexive spaces.
Dokl. Akad. Nauk SSSR 152, 52-54 (1963); M.R. v. 28, 1478.
6. V.D. Milman, A.D. Myshkis
Random shocks in linear dynamical system, non-linear variation problems.
J. Second Conf. of Nonlinear Vibrations, 165-170, Warsaw 1962; Panstowowe Wydawnictwo Naukowe, Warsaw, 1964; M.R. 32, 4902.
7. D.P. Milman, V.D. Milman
Some properties of non-reflexive Banach spaces.
Math. Sb. (N.S.) 65(104): 486-497 (1964); M.R. 30, 1383.
8. V. Milman
Sturm-Liouville operators in a non selfadjoint case.
Kharkov, Ph.D. Dissertation (1965).
9. D.P. Milman, V.D. Milman
The geometry of imbeddings with empty intersection. The structure of the unit sphere in non-reflexive space.
Mat. Sb. (N.S.), 66 (108), 109-118 (1965), M.R. v. 31, 2596.
10. V.D. Milman
Certain properties of unconditional bases.
Dokl. Akad. Nauk SSSR 162, 269-272 (1965); Soviet Math. Dokl. 6, 656-659 (1965), M.R. v. 33, 7825

11. V.D. Milman
Perturbations of sequences of elements of a Banach space.
Sibirski Math. Z. 6, 398-412 (1965); M.R. v. 34, 6491.
12. V.D. Milman
Some properties of sequence of elements of Banach spaces.
First Republ. Math.Conf. of Young Researchers, Part II, 480-489, Akad Nauk.
Ukraine SSR Inst. Mat. Kiev, 1965; M.R. v. 34, 4876.
13. V.I. Gurarii, M.J. Kadec, V.I. Matzaev, V.D. Milman
New results in the theory of sequences in normalized spaces.
Abstracts of reports, All-Union conference on application of the methods of functional
analysis, 10-12, Baku 1965.
14. V.D. Milman
Some geometric properties of locally convex spaces.
Abstracts of reports, All-Union conference on application of the methods of functional
analysis, 73, Baku 1965.
15. A.I. Kononenko, V.D. Milman
A numerical method for finding asymptotically stable solutions of systems of ordinary
differential equation.
Dokl. Akad. Nauk SSSR. 167, 739-742 (1966); M.R. v. 33, 1973.
16. A.Ju. Lev, D.P. Milman, V.D. Milman
Convolution of information in the classical probabilistic scheme.
Problemy Peredaci Informa cii, 2, vyp 2, 29-38 (1966); M.R. v. 34, 8877.
17. V.I. Gurarii, V.D. Milman
Direct and backward problems of the theory of sequences in normalized spaces.
Abstracts of reports, International Mathematical Congress, Functional Analysis, 45,
Moscow 1966.
18. V.D. Milman
The infinite dimensional geometry of the unit sphere of a Banach space.
Soviet Math. Dokl. 8, 1440-1444 (1967) (translated from Russian).
19. V.D. Milman
The basis structure of a B -space and properties of the sphere which are invariant
relative to isomorphisms.
Soviet Math. Dokl 9, 451-454 (1968) (translated from Russian).
20. A.I. Kononenko, V.D. Milman
A numerical method of finding partially stable singular points of ordinary differential
equations.
M.R. v. 38, 1834; Dokl. Akad Nauk SSR, 182, 1271-1273 (1968); Soviet Math. Dokl.
9, 1276-1279 (1968).
21. P.D. Milman, V.D. Milman
Fixed points of non compact mappings.
M.R. v. 38, 5087; Dokl Akad Nauk SSSR 183, 41-44 (1968); Soviet Math. Dokl. 9,
1330-1333 (1968).

-
22. V.D. Milman
Certain properties of strictly singular operators.
M.R. v. 39, 3392; Functional Anal. Prilozen. 3, No.1, 93-94 (1969).
 23. V.D. Milman, Ju.B. Tumarkin
Properties of sequences in locally convex spaces.
M.R. v. 39, 6045; Dokl. Akad, Nauk SSSR 184, 278-281 (1969); Soviet Math. Dokl 10, 63-66 (1969).
 24. V.D. Milman
The spectrum of bounded continuous functions which are given on the unit sphere of a B -space.
M.R. v. 40, 4740; Functional Anal. Prilozen 3, No. 2, 67-79 (1969).
 25. V.D. Milman
A certain transformation of convex functions and a duality of the β - and δ -characteristics of a B -space.
M.R. v.41, 797; Dokl Akad, Nauk SSSR, 33-35 (1969); Soviet Math. Dok. 10, 789-792 (1969).
 26. V.D. Milman
James's classes of minimal systems and their connection with the isometry properties of B -spaces.
M.R. v. 41, 8973; Dokl. Akad Nauk SSSR 192, 742-745; Soviet Math. Dokl 11, 729-732 (1970).
 27. V.D. Milman
Geometric theory of Banach spaces I. Theory of basis and minimal systems.
M.R. v. 43, 6704. Uspehi Mat. Nauk 25, No. 3 (153) 113-174 (1970); Russian Math. Surveys vol. 25:3, 1970.
 28. V.D. Milman
Letter to the editor
UMN 25, No. 6 (156) 245 (1970).
 29. V.D. Milman
Operators of the classes C_0 and C_0^* .
Teor. Funktsii, Funktsional Analiz. i Prilozhen, vyp. 11, 15-26 (1970).
 30. V.D. Milman
Research on the infinite dimensional geometry of a Banach space.
Chernogolovka (Moscow) - Kharkov, 1969.
 31. V.D. Milman
Geometric theory of Banach spaces II. Geometry of the unit sphere.
Uspechi Mat. Nauk, vol. 26, no. 6, 73-149, 1971; Russian Math. Surveys, v. 26 6, 80-159.
 32. V.D. Milman
A new proof of the theorem of A. Dvoretzky on sections of convex bodies.
Functional Analysis and its Applications, vol. 5, no. 4, 28-37 (1971).

-
33. V.D. Milman
Asymptotic properties of functions of several variables defined on homogeneous spaces.
Dokl. Akad. Nauk SSSR, 199, 6, 1247-1250 (1971); Soviet Math. Dokl., 12, 4, 1277-1281 (1971).
34. V.D. Milman
On a property of functions defined on infinite-dimensional manifolds.
Soviet Math. Dokl., 12 5, 1487-1491 (1971).
35. A.I. Kononenko, V.D. Milman
On partial stability as a whole.
Sb. Numerical Mathem FTINT Akad. Nauk USSR, Kharkov, 2, 13-19 (1971).
36. V.D. Milman
On an asymptotic property of the multi-complex-variable function.
Abstracts of reports, All Union conference on the theory of functions of complex variables (1971).
37. V.D. Milman
Levels of the function on multidimensional complex homogeneous spaces.
Uspehi Mat. Nauk, 27, 4(166), 219-220 (1972).
38. V.D. Milman
Duality of some geometric characteristics of Banach spaces.
Teor. Funktsii, Funktsional Analiz i Prilozhen, 18, 120-137 (1973).
39. A.O. Tonoian, A.I. Prihozenko, S.P. Davtian, V.D. Milman, B.A. Rozenberg, N.S. Enikolopian
On the method of computation of the M.W.D. function and the definition of the M.W.D. character by adiabatic polimerization of stirol.
Dokl. Acad. Nauk SSSR, v. 211, 389-392, 2(1973).
40. V.D. Milman
Banach-Mazur distance and geometric properties of B -spaces.
Teor. Funktsii, Funktsional Analiz i Prilozhen 19, 23-32, (1974).
41. V.D. Milman
A sharpened version of Dvoretzky's Theorem on sections of convex bodies for spaces "not too different" from Euclidean spaces,
Preprint, Tel Aviv University (1975).
42. T. Figiel, J. Lindenstrauss, V.D. Milman
The dimension of almost spherical sections of convex bodies.
Bull. Amer. Math. Soc. 82, 575-578, 4(1976).
43. T. Figiel, J. Lindenstrauss, V.D. Milman
The dimension of almost spherical sections of convex bodies.
Acta Math., 139, No. 1-2, 53-94 (1977).
44. V.D. Milman, H. Wolfson
Minkowski spaces with extremal distance from the Euclidean space.
Israel J. Math. 29, No. 2-3, 113-131 (1978).

-
45. V.D. Milman, M.G. Karpovsky
On subspaces contained in subsets of finite homogeneous spaces.
Discrete Math. 22, 273-280 (1978).
 46. M.G. Karpovsky, V.D. Milman
Coordinate density of sets of vectors.
Discrete Math. 24, 177-184 (1978).
 47. V.D. Milman, M. Sharir
Shrinking minimal systems and complementation of n_p -spaces in reflexive Banach, spaces.
Proceeding of London Math. Soc., (3)39, 1-29 (1979).
 48. V.D. Milman, M. Sharir
A new proof of the Maurey-Pisier Theorem.
Israel J. of Math. 33 No. 1, 73-87, (1979).
 49. D. Amir, V.D. Milman
Unconditional and symmetric sets in n -dimensional normed spaces.
Israel J. of Math., Vol. 37, 1-2, 3-20 (1980).
 50. W.J. Davis, V.D. Milman, N. Tomczak-Jaegermann
The diameter of the space of n -dimensional spaces.
Israel J. of Math., Vol. 39, 1-2, 1-15 (1981).
 51. M. Gromov, V.D. Milman
A topological application of the isoperimetrical inequality.
American J. of Math., Vol. 105, N4, 843-854 (1983).
 52. V.D. Milman
Some remarks about embedding of ℓ_k^1 in finite dimensional spaces.
Israel J. of Math., Vol 43 No. 2, 129-138 (1982).
 53. M. Deza, M.G. Karpovsky, V.D. Milman
Codes correcting an arbitrary set of errors.
Revue du Cethedec, 66, 65-76 (1981).
 54. N. Alon, V.D. Milman
Embedding of ℓ_∞^k in the finite dimensional Banach spaces.
Israel J. of Math. Vol. 45, N4, 265-280 (1983).
 55. N. Alon, V.D. Milman
Concentration of measure phenomena in the discrete case and the Laplace operator of a graph.
Seminar on Functional Analysis 1983/84, Publ. Math. Univ. Paris VII, 20, Univ Paris VII, Paris, 55-68 (1984).
 56. V.D. Milman, H. Wolfson
Topics in finite metric spaces.
GAFA Seminar Notes, Tel Aviv University, Israel 1983-1984, Exp. IV, 19pp.
 57. M. Gromov, V.D. Milman
Brunn Theorem and a concentration of volume of convex bodies.
GAFA Seminar Notes, Tel Aviv University, Israel 1983-1984, Exp. V, 12 pp.

-
58. V.D. Milman
Geometrical inequalities and mixed volumes in Local Theory of Banach Spaces.
Asterisque (special issue devoted to Prof. Laurent Schwartz) 131, 373-400 (1985).
59. D. Amir, V.D. Milman
A quantitative finite-dimensional Krivine Theorem.
Israel J. Math. 50, N1-2, 1-12 (1985).
60. V.D. Milman
Almost Euclidean quotient spaces of subspaces of a finite dimensional normed space.
Proceedings AMS 94, N3, 445-449 (1985).
61. N. Alon, V.D. Milman
 λ_1 , isoperimetric inequalities for graphs and superconcentrators.
J. Combinatorial Theory, Ser. B 38, N1, 73-88 (1985).
62. N. Alon, V.D. Milman
Eigenvalues, expanders and superconcentrators.
Proceedings 25th Annual Symposium on Foundations of Computer Sciences, Florida
(1984).
63. J. Bourgain, V.D. Milman, H. Wolfson
On type of metric spaces.
Transactions AMS 294, No. 1, 295-317 (1986).
64. J. Bourgain, V.D. Milman
Distances between normed spaces, their subspaces and quotient spaces.
Integral Equations and Operator Theory 9, No. 1, 31-46 (1986).
65. V.D. Milman, G. Schechtman
Asymptotic theory of finite dimensional normed spaces.
Springer-Verlag, Lecture Notes in Mathematics 1200, 156pp. (1986); 2nd edition
(2002).
66. V.D. Milman
Volume approach and iteration procedures, in local theory of normed spaces.
Banach spaces, Proceedings, Missouri, 1984, Springer -Verlag, Lecture Notes in Math-
ematics 1166, 99-105 (1985).
67. J. Bourgain, V.D. Milman
Dichotomie du cotype pour les espace, invariants.
C.R. Acad. Sci. Paris, Ser. A., t 300 N9, 263-266 (1985).
68. V.D. Milman
Random subspaces of proportional dimension of finite dimensional normed spaces;
approach through the isoperimetric inequality.
Banach spaces, Proceedings, Missouri, 1984, Springer-Verlag, Lecture Notes in Math-
ematics 1166, 106-115 (1985).
69. V.D. Milman
Diameter of minimal invariant subsets of Lipschitz actions on compact subsets of R^k .
GAFA Seminar Notes, Springer-Verlag, Lecture Notes in Mathematics 1267, 13-20
(1987).

-
70. N. Alon, Z. Galil, V.D. Milman
Better Expanders and Superconcentrators.
J. Algor. 8, 337-347 (1987).
 71. J. Bourgain, V.D. Milman
Sections euclidiennes et volume des corps symetriques convexes dans R^n .
C.R. Acad. Sc. Paris, t.300 Serie 1, N. 13, 435-438 (1985).
 72. J. Bourgain, V.D. Milman
On Mahier's conjecture on the volume of a convex symmetric body and its polar.
Preprint I.H.E.S., March 1985, 34 pages.
 73. V.D. Milman, G. Pisier
Gaussian processes and mixed volumes.
Annals of Probability 15, 1, 292-304 (1987).
 74. V.D. Milman, G. Pisier
Banach spaces with a weak cotype 2 property.
Israel J. Math. 54, No. 2, 139-158 (1986).
 75. M. Gromov, V.D. Milman
Generalization of the spherical isoperimetric inequality to the uniformly convex Banach spaces.
Compositio Math. 62, No.3, 263-282 (1987).
 76. V.D. Milman
An inverse form of the Brunn-Minkowski inequality with applications to local theory of normed spaces.
C.R. Acad. Sc. Paris 302, Ser. 1, No. 1 25-28 (1986).
 77. J. Bourgain, T. Figiel, V. Milman
On Hilbertian subsets of finite matric spaces.
Israel J. Math. 55, No. 2, 147-152 (1986).
 78. J. Bourgain, V.D. Milman
New volume ratio properties of convex symmetric bodies in R^n .
Invent. Math. 88, 319-340 (1987).
 79. V.D. Milman
The concentration phenomenon and linear structure of finite dimensional normed spaces.
Proceedings I.C.M, Berkeley, (1986).
 80. H. Konig, V.D. Milman
On the covering numbers of convex bodies.
GAFA-Seminar Notes, Springer Lecture Notes in Math. 1267, 82-95 (1987).
 81. V.D. Milman, N. Tomczak-Jaegermann
Sudakov type inequalities for convex bodies in R^n .
GAFA-Seminar Notes, Springer Lecture Notes in Math. 1267, 113-121 (1987).
 82. V.D. Milman
Some remarks on Urysohn's inequality and volume ratio of cotype 2-spaces.
GAFA-Seminar Notes, Springer Lecture Notes in Math. 1267, 75-81 (1987).

-
83. J. Bourgain, J. Lindenstrauss, V.D. Milman
Sur l'approximation de zonoides par des zonotopes.
C.R. Acad. Sc. Paris, t. 303, Ser I. N. 20, 937-938 (1986).
84. H. König, V.D. Milman, N. Tomczak-Jaegermann
Entropy numbers and duality for operators with values in a Hilbert space.
In "Probability in Banach Spaces 6" (U. Haagerup, J. Hoffmann-Jørgensen, N.J. Nielsen, eds), 219-233 (1990).
85. J. Bourgain, J. Lindenstrauss, V. Milman
Approximation of zonoids by zonotopes.
Acta Math., v. 162, 73-141 (1989).
86. V.D. Milman
The heritage of P. Levy in geometrical functional analysis.
Asterisque 157/158, 273-301 (1988).
87. J. Bourgain, M. Meyer, V. Milman, A. Pajor
On a geometric inequality.
GAFA-Seminar '86-87, Springer Lecture Notes in Math. v.1317, 271-282 (1988).
88. V.D. Milman
Isomorphic symmetrization and geometric inequalities.
GAFA-Seminar Notes '86-87, Springer Lecture Notes in Math. v.1317, 107-131 (1988).
89. V.D. Milman
A few observations on the connections between Local Theory and some other fields.
GAFA-Seminar Notes '86-87, Springer Lecture Notes in Math. v.1317, 283-289 (1988).
90. J. Bourgain, J. Lindenstrauss, V. Milman
Minkowski sums and symmetrizations.
GAFA-Seminar Notes '86-87, Springer Lecture Notes in Math. v.1317, 44-66 (1988).
91. V.D. Milman
Entropy point of view on some geometric inequalities.
C.R. Acad. Sc. Paris, v. 306, 611-615 (1988).
92. V.D Milman, A. Pajor
Isotropic position and inertia ellipsoids and zonoids of the unit ball of a normed n -dimensional space.
GAFA-Seminar 87-88, Springer Lecture Notes in Math., v.1376, 64-104, (1989).
93. V.D. Milman, A. Perelson
Infinite dimensional geometric moduli and type-cotype theory.
In "Geometric Aspects of Banach Spaces", Ed. Martin-Peínador and Rodes, London Math. Soc. Lecture Notes Series, v. 140, 11-39 (1989).
94. V.D. Milman, A. Pajor
Cas limites dans des inegalities du type de Khinchine et applications geometriques.
C.R. Acad. Sc. Paris, v. 308, 91-96 (1989).

-
95. V.D. Milman
Spaces of large dimension; some counter-intuitive results.
Proceeding of the Workshop “Functional Analysis/Optimization”, Canberra, 1988,
Publication of CMA, pp. 141-152.
 96. J. Bourgain, J. Lindenstrauss, V. Milman
Estimates related to Steiner symmetrizations.
Springer Lecture Notes in Math., v. 1376, 264-273 (1989).
 97. V. Milman
A note on a low M^* -estimate.
In “Geometry of Banach Spaces” (eds. P.F.X. Müller and W. Schachermayer), London
Mathematical Society Lecture Notes Series 158, 219-229 (1990).
 98. V. Milman
Some geometric duality relations.
C.R. Acad. Sci. Paris, v. 310, 183-187 (1990).
 99. V. Milman
Spectrum of a position of a convex body and linear duality relations.
Israel Math. Conf. Proceedings (IMCP) v. 3, Festschrift in Honor of Professor I.
Piatetski-Shapiro (Part II), Weizmann Science Press of Israel, 151-162 (1990).
 100. V. Milman
Some applications of duality relations.
GAFA Seminar 1989-90, Springer Lecture Notes in Math. v. 1469, 13-40 (1991).
 101. J. Lindenstrauss, V. Milman
The local theory of normed spaces and its applications to convexity.
In “Handbook of Convex Geometry”, Vol. B, 1149-1220 (P.M. Gruber and J.M. Wills,
eds), North Holland (1993).
 102. V. Milman
Dvoretzky Theorem – 30 years later.
Geometric and Functional Analysis (GAFA) 2:4, 455-479 (1992).
 103. V. Milman
Proportional quotients of finite dimensional normed spaces.
Springer Lecture Notes (V. Havin, Nikolskii, ed.) 1573, 3-5 (1994).
 104. V. Milman, N. Tomczak-Jaegermann
Asymptotic ℓ_p spaces and bounded distortions.
In “Banach Spaces”, Contemporary Mathematics Series, 144, 173-195 (1993).
 105. B. Maurey, V. Milman, N. Tomczak-Jaegermann
Asymptotic infinite-dimensional theory of Banach spaces.
Operator Theory: Advances and Applications 77, 149-175, Birkhäuser Verlag, Basel
(1995).
 106. V. Milman
Linear structure of Banach spaces; asymptotic view.
in “Banach Space Theory and its Applications”, Proceedings of Wuhan International
Conference on Banach Spaces, Wuhan University Press 1-12 (1996).

-
107. V. Milman, G. Schechtman
An “isomorphic” version of Dvoretzky’s theorem.
C.R. Acad. Sci. Paris 321, 541-544 (1995).
108. V. Milman
Book Review of ”Convex bodies: The Brunn-Minkowski Theory” by Rolf Schneider
(Encyclopedia of Mathematics and its Applications, vol 44, Cambridge Univ. Press,
Cambridge, 1993, Xii+490pp.).
Bulletin (New Series) of the American Mathematical Society 32:2, 261-264 (1995).
109. V. Milman
Isomorphic Euclidean regularization of quasi-norms in \mathbb{R}^n .
C.R. Acad. Sci. Paris, 321, 879-884 (1996).
110. V. Milman, G. Schechtman
Global vs. local asymptotic theories of finite dimensional normed spaces.
Duke Math. J. 90:1, 73-93 (1997).
111. A.A. Giannopoulos, V. Milman
Low M^* -estimate on coordinate subspaces.
J. Functional Analysis 147:2, 457-484 (1997).
112. A. Litvak, V. Milman, A. Pajor
The covering numbers and “low- M^* -estimate” for quasi-convex bodies.
Proceedings AMS 127:5, 1499-1507 (1999).
113. A.A. Giannopoulos, V.D. Milman
On the diameter of proportional sections of a symmetric convex body.
IMRN 1 (1997), 5-19.
114. A.A. Giannopoulos, V.D. Milman
How small can the intersection of a few rotations of a symmetric convex body be?
C.R. Acad. Sci. Paris t. 325, Ser. 1, 389-394 (1997).
115. V.D. Milman, R. Wagner
Asymptotic versions of operators and operator ideals.
“Convex Geometric Analysis at MSRI”, MSRI Publications 34, 165-179 (1998).
116. V.D. Milman
Surprising geometric phenomena in high dimensional convexity theory.
Proceedings of ECM2, v. II, Budapest 1996, 73-91, PM 169, Birkhauser.
117. V.D. Milman, G.Schechtman
An “isomorphic” version of Dvoretzky’s theorem, II.
“Convex Geometric Analysis at MSRI”, MSRI Publications 34, 159-164 (1998).
118. A.A. Giannopoulos, V.D. Milman
Mean width and diameter of proportional sections of a symmetric convex body.
J. reine angew. Math. 497, 113-139 (1998).
119. A.E. Litvak, V.D. Milman, G. Schechtman
Averages of norms and quasi-norms.
Math. Annalen 312, 95-124 (1998).

-
120. A.E. Litvak, V.D. Milman, G. Schechtman
Averages of norms and behavior of families of projective caps on the sphere.
C. R. Acad. Sci. Paris t. 325, Série I, 289–294 (1997).
 121. S. Alseker, S. Dar, V. Milman
A remarkable measure preserving diffeomorphism between two convex bodies in \mathbb{R}^n .
Geom. Dedicata 74, 201–212 (1999).
 122. V. Milman, A. Pajor
Entropy and asymptotic geometry of non-symmetric convex bodies.
Advances in Math. 152, 314–335 (2000).
 123. A.A. Giannopoulos, V. Milman
Euclidean structures in finite dimensional normed spaces.
Handbook of Geometry of Banach Spaces 1, North-Holland, Amsterdam (2001), 707–779.
 124. V. Milman
Randomness and pattern in convex geometric analysis.
Proceedings of ICM-98, Berlin, v. 2, 665-677 (1998).
 125. A.A. Giannopoulos, V. Milman
Extremal problems and isotropic positions.
Isr. J. Math. 117, 29–60 (2000).
 126. V. Milman, A. Pajor
Entropy methods in asymptotic convex geometry.
CRAS Series 1, t. 329, 303–308 (1999).
 127. V. Milman, S.J. Szarek
A geometric lemma and duality of entropy.
GAFA Seminar Notes, Springer LNM 1745, 191–222 (2000).
 128. A.A. Giannopoulos, V. Milman
Concentration property on probability spaces.
Advances in Math., 156, 77–106 (2000).
 129. V.D. Milman, N. Tomczak-Jaegermann
Stabilized asymptotic structures and envelopes in Banach spaces.
GAFA Seminar Notes, Springer LNM 1745, 223–238 (2000).
 130. A.A. Giannopoulos, V.D. Milman, M. Rudelson
Convex bodies with minimal mean width.
GAFA Seminar Notes, Springer LNM 1745, 81-94 (2000).
 131. V. Milman, S.J. Szarek
A geometric lemma and duality of metric entropy.
CRAS, ser. Math., No. 2, 332 157–162 (2001).
 132. V. Milman
Topics in asymptotic geometric analysis.
GAFA2000 – Visions in Mathematics, Towards 2000, Special Volume, Part II (2000), 792–815.

-
133. V. Milman
Observations on migration of people and ideas in mathematics of the 20th Century (in Russian – "Nablyudeniya o dvizhenii lyudei i idei v matematike XX veka").
Matematicheskie sobytiya XX veka: Moscow: PHASIS, 2003.
134. A.E. Litvak, V.D. Milman
Euclidean sections of direct sums of normed spaces.
Canadian Math. Bull. 46:2 (2003), 242–251.
135. E. Gluskin, V. Milman
Randomizing properties of convex high-dimensional bodies and some geometric inequalities.
C.R. Math. Acad. Sci. Paris 334 (2002), no. 10, 875–879.
136. S. Artstein, V.D. Milman, S.J. Szarek
More on the duality conjecture of entropy numbers.
Comptes Rendus Mathematique 336:6 (2003), 479–482.
137. J. Bourgain, B. Klartag, V. Milman
A reduction of the slicing problem to finite volume ratio bodies.
Comptes Rendus Mathematique 336:4 (2003), 331–334.
138. E. Gluskin, V. Milman
Note on the geometric-arithmetic mean inequality.
Geometric Aspects of Functional Analysis, Israel Seminar 2001–2002, Springer Lecture Notes in Mathematics 1807 (2003), 131–135.
139. V. Milman, R. Wagner
Some remarks on a lemma of Ran Raz.
Geometric Aspects of Functional Analysis, Israel Seminar 2001–2002, Springer Lecture Notes in Mathematics 1807 (2003), 158–168.
140. V. Milman, A. Pajor
Regularization of star-bodies by random hyperplane cutoff.
Studia Math. 159:2 (2003), 247–261.
141. B. Klartag, V. Milman
Isomorphic Steiner symmetrization.
Inventiones 153:3 (2003), 465–485.
142. A. Litvak, V. Milman, N. Tomczak-Jaegermann
When random proportional subspaces are also random quotients.
Journal of Functional Analysis 213 (2004), N.2, 270–289.
143. V. Milman
From functional analysis to asymptotic geometric analysis.
in "History of the Mathematical Sciences" (I. Grattan-Guinness, B.S. Yadav, eds.),
Hindustan Book Agency (India) (2003).

-
144. A.A. Giannopoulos, V.D. Milman
Asymptotic Convex Geometry: a short overview.
in “Different Faces of Geometry” (S.K. Donaldson, Ya. Eliashberg, M. Gromov, eds.),
International Mathematical Series, vol. 3 (2004), Kluwer / Plenum Publishers (2004),
95-172.
 145. V. Milman
Phenomena arising from high dimensionality.
The Special Volumes for 100 years of Kolmogorov, UMN, vol. 59, No. 1 (355) (2004),
157-168.
 146. S. Artstein, V.D. Milman, S.J. Szarek
Duality of metric entropy in the Euclidean space.
Comptes Rendus Mathematique 337:11 (2003), 711–714.
 147. S. Artstein, V.D. Milman, S.J. Szarek
Duality of metric entropy.
Annals of Math. 159, no. 3 (2004).
 148. E. Gluskin, V. Milman
Geometric probability and random Cotype 2.
GAFA Seminar Notes, Springer LNM 1850 (2004), 123-138.
 149. J. Bourgain, B. Klartag, V.D. Milman
Symmetrization and isotropic constants of convex bodies.
GAFA Sem. Notes, Springer LNM 1850 (2004), 101-116.
 150. V.D. Milman, A. Pajor
Essential uniqueness of M-ellipsoid of a given convex body
GAFA Sem. Notes, Springer LNM 1850 (2004), 237-241.
 151. A.E. Litvak, V.D. Milman, N. Tomczak-Jaegermann
Isomorphic random subspaces and quotients of convex and quasi-convex bodies.
GAFA Sem. Notes, Springer Lect. Notes 1850 (2004), 159–178.
 152. B. Klartag, V.D. Milman
Rapid Steiner symmetrization of most of a convex body and the slicing problem.
Combinatorics, Probability and Computing 14 (2005), N.5-6, 829-843.
 153. S. Artstein, V.D. Milman, S. Szarek, N. Tomczak-Jaegermann
Convexified packing and entropy duality.
GAFA, Geom. funct. anal. 14, no. 5 (2004), 1134-1141.
 154. S. Artstein, B. Klartag, V.D. Milman
The Santalo point of a function, and a functional form of Santalo inequality.
Mathematica 51 (2004), 33-48.
 155. B. Klartag, V.D. Milman
Geometry of log-concave functions and measures.
Geom. Ded. 112 (2005), 169-182.
 156. G. Giannopoulos, V.D. Milman, A. Tsolomitis
Asymptotic formula for the diameter of sections of symmetric convex bodies.
JFA 233 (2005), No. 1, 86-108.

-
157. S. Artstein, O. Friedland, V. Milman
Geometric applications of Chernoff-type estimates and a ZigZag approximation for balls.
Proceedings AMS 134 (2006), 1735-1742.
158. S. Artstein-Avidan, O. Friedland, V. Milman
Geometric applications of Chernoff-type estimates.
GAFA Sem. Notes, Springer LNM 1910 (2007), 45-75.
159. S. Artstein-Avidan, O. Friedland, V. Milman, S. Sodin
Polynomial bounds for large Bernoulli sections of ℓ_1^N .
Isr. J. Math 156 (2006), 141-155.
160. S. Artstein-Avidan, V. Milman
Logarithmical reduction of the level of randomness in some probabilistic geometric constructions.
J. Funct. Anal 235 (2006), N.1, 297–329.
161. S. Artstein-Avidan, V. Milman
Using Rademacher-permutations to reduce randomness.
Algebra & Analysis 19 (2007), N.1, 23-45; Russian transl.: St. Petersburg Math. J. 19 (2008), N.1, 15–31.
162. S. Artstein-Avidan, V. Milman, Y. Ostrover
The M-ellipsoid, symplectic capacities and volume.
Commentarii Mathematici Helvetica 83 (2008), 359-369.
163. V. Milman
Simplicity v/s complexity in the framework of Geometric Asymptotic Analysis and some new application of concentration phenomena.
Milan Journal of Mathematics 74 (2006), 199-211.
164. A. Litvak, V.D. Milman, A. Pajor, N. Tomczak-Jaegermann
Entropy extension.
Funct. Anal. and Appl. 40, #4 (2006), 65-71 (in Russian); Funct. Anal. and Appl. Entropy Extension, 40, #4 (2006), 298-303.
165. A. Litvak, V.D. Milman, A. Pajor, N. Tomczak-Jaegermann
On the Euclidean metric entropy of convex bodies.
Springer Lect. Notes in Math. 1910 (2007), 221-235.
166. V. Milman
Geometrization of probability.
Oberwolfach Reports.
167. V. Milman
Geometrization of probability.
Proceedings of “Geometry and Dynamics of Groups and Spaces”, Conference in Memory of Alexander Reznikov, Birkhäuser, Progress in Mathematics 265 (YEAR), 647-667.

-
168. S. Artstein-Avidan, V. Milman
The concept of duality in convex analysis and characterization of the Legendre transform,
Annals of Math. 169 (2009), N.2, 661–674.
169. S. Artstein-Avidan, V. Milman
A characterization of the concept of duality,
Electron. Res. Announc. Sci. 14 (2007), 42-59 (electronic).
170. S. Artstein-Avidan, V. Milman
The concept of duality for measure projections of convex bodies.
JFA 254 (2008), N.10, 2648-2666.
171. S. Alesker, S. Artstein-Avidan, V. Milman
A characterization of the Fourier transform and related topics.
C. R. Math. Acad. Sci. Paris 346 (2008), no. 11-12, 625–628.
172. S. Artstein-Avidan, V. Milman
A new duality transform.
C.R. Acad. Sci. Paris 346 (2008), 1143 - 1148.
173. S. Alesker, S. Artstein-Avidan, V. Milman
A characterization of the Fourier transform and related topics.
Linear and Complex Analysis, Amer. Math. Soc. Transl. Ser. 2, 226 (2009), 11–26.
174. S. Artstein-Avidan, V. Milman
A characterization of the support map.
Adv. Math. 223 (2010), N.1, 379–391.
175. A.E. Litvak, V.D. Milman, N. Tomczak-Jaegermann
Essentially Euclidean convex bodies.
Studia Math. 196 (2010), no. 3, 207–221.
176. S. Artstein-Avidan, V. Milman
Hidden structures in the class of convex functions and a new duality transform.
J. Eur. Math. Soc. (JEMS) 13 (2011), no. 4, 975–1004.
177. S. Alesker, S. Artstein-Avidan, D. Faifman, V. Milman
A characterization of product preserving maps with applications to a characterization of the Fourier transform.
Illinois J. Math., 54 (3) , 1115 - 1132 (2010)
178. V. Milman, R. Schneider
Characterizing the mixed volume.
Advances in Geometry 11 (2011), no. 4, 669–689.
179. S. Artstein-Avidan, H. Koenig, V. Milman
The chain rule as a functional equation.
J. Funct. Anal., 259 (2010), no 11, 2999–3024.
180. S. Artstein-Avidan, V. Milman
Stability results for some classical convexity operations.
Adv. Geom. 13, No. 1, 51-70 (2013).

-
181. H. Koenig, V. Milman
The chain rule as a functional equation in \mathbb{R}^n .
J. Funct. Anal. 261 (2011), no. 4, 861–875.
 182. H. Koenig, V. Milman
A function equation characterising the second derivative.
J. Funct. Anal. 261 (2011), no. 4, 876–896.
 183. H. Koenig, V. Milman
Derivative and entropy: The only derivations from $C^1(\mathbb{R})$ to $C(\mathbb{R})$.
Electron. Res. Announc. Math. Sci. 18 (2011), 54–60.
 184. H. Koenig, V. Milman
Characterizing the derivative and the entropy function by the Leibniz rule.
J. Funct. Anal. 261 (2011), no. 5, 1325–1344.
 185. S. Artstein-Avidan, D. Faifman, V. Milman
On multiplicative maps of continuous and smooth functions.
GAFA Seminar 2006 - 2010, Springer Lecture Notes in Math. v. 2050, (2012), pp.35-60
 186. V. Milman, A. Segal, B. Slomka
A characterization of duality through section/projection correspondence in the finite dimensional setting.
J. Funct. Anal. 261 (2011), no. 4, 3366–2289.
 187. S. Artstein-Avidan, D. Florentin, V. Milman
Order isomorphisms in windows.
Electron. Res. Announc. Math. Sci. 18 (2011), 112–118.
 188. S. Artstein-Avidan, D. Florentin, V. Milman
Order isomorphisms on convex functions in windows.
GAFA Seminar 2006 - 2010, Springer Lecture Notes in Math. v. 2050, (2012), pp.61-122
 189. H. Koenig, V. Milman
An operator equation generalizing the Leibniz rule for the second derivative.
GAFA Seminar 2006 - 2010, Springer Lecture Notes in Math. v. 2050, (2012), pp 279-300
 190. H. Koenig, V. Milman
An operator equation characterizing the Laplacian.
St Petersburg Mathematical Journal 24 (4), pp. 631–644.
 191. V. Milman, L. Rotem
Mixed integrals and related inequalities.
J. Funct. Anal. 264 (2013), no. 2, 570-604.
 192. H. Koenig, V. Milman
Rigidity and stability of the Leibniz and the Chain Rule.
Proceedings of the Steklov Institute of Mathematics, 2013, Vol. 280, pp. 191-207 (in English).

-
193. H. Koenig, V. Milman
The Derivation equation for C^k -functions: stability and localization.
Israel J. Math 203 (2014), no. 1, 405–427.
194. H. Koenig, V. Milman
A note on operator equations describing the integral.
Zh. Mat. Fiz. Anal. Geom. 9 (2013), no. 1, 51–58, 115.
195. H. Koenig, V. Milman
Operator functional equations in analysis.
Asymptotic geometric analysis, 189-209, Fields Inst. Commun., 68, Springer, New York, 2013.
196. V. Milman, L. Rotem
A Functional Extension of Mixed Volumes.
Electron. Res. Announc. Math. Sci. XX (2013).
197. V. Milman and E. B. Vladimirsky
Bio-Photon Mechanism of the Activation of Cellular Programmes.
Cellular Transplantation and Tissue Engineering, 2012, v. VII, N. 1, pp 92-96 (the original in Russian).
198. H. Koenig and V. Milman
Operator equations and domain dependence, the case of the Schwarzian derivative.
Journal of Functional Analysis, Vol. 266 (4), pp. 2546–2569, 2014.
199. D. Florentin, V. Milman and R. Schneider
A Characterization of the Mixed Discriminant.
Proc. Amer. Math. Soc. 144 (2016), no. 5, 2197–2204.
200. V. Milman and L. Rotem
Characterizing addition of convex sets by polynomiality of volume and by the homothety operation.
Commun. Contemp. Math. 17 (2015), no. 3, 1450022, 22 pp.
201. D. Faifman, B. Klartag and V. Milman
On the oscillation rigidity of a Lipschitz function on a high-dimensional flat torus.
GAFA seminar Notes, Springer Lect. Notes in Math. , v.2116, 2014.
202. H. Koenig and V. Milman
Submultiplicative functions and operator inequalities.
Studia Math. , 223 (3) , pp. 217-231, 2014.
203. D. I. Florentin, V. D. Milman and A. Segal
Identifying set inclusion by projective positions and mixed volumes.
GAFA seminar Notes, Springer Lect. Notes in Math. , v.2116, 2014, pp. 133–145.
204. E. Vladimirsky, V. Milman
Mechanisms of Signal Transduction in Cells. Fact and Hypotheses.
Klinicheskaya Onkogematologiya, v.8, #3 (2015), pp.248–254.
205. H. Koenig, V. Milman
Rigidity of the chain rule and nearly submultiplicative functions.

-
- Geometric aspects of functional analysis, 235–264, Lecture Notes in Math., 2169, Springer, Cham, 2017.
206. H. Koenig, V. Milman
The chain rule operator equation for polynomials and entire functions.
Convexity and Concentration, IMA Proc. in Math. and its Appl., Springer (2017), 613–623.
207. V. Milman, L. Rotem
Characterizing the radial sum for star bodies.
Geometric aspects of functional analysis, 319–329, Lecture Notes in Math., 2169, Springer, Cham, 2017.
208. V. Milman, L. Rotem
Non-Standard Constructions in Convex Geometry; Geometric Means of Convex Bodies.
Convexity and Concentration, volume 161 of The IMA Volumes in Mathematics and its Applications, Eric Carlen, Mokshay Madiman, and Elisabeth Werner, editors, 361–390, Springer, New York, NY, 2017.
209. H. Koenig, V. Milman
The Derivation equation for C^k -functions: stability and localization.
Israel J. Math. 203 (2014), no. 1, 405–427.
210. V. Milman, L. Rotem
Geometric means of convex sets and functions and related problems.
Oberwolfach reports, 2016.
211. L. Ben-Efraim, V. Milman, A. Segal
Orbit point-of-view on some results of asymptotic theory; Orbit type and cotype.
Geometric aspects of functional analysis, 15–23, Lecture Notes in Math., 2169, Springer, Cham, 2017.
212. S. Artstein-Avidan, A. Giannopoulos, V. Milman
Asymptotic Geometric Analysis, Part I.
Mathematical Surveys and Monographs, 202.
American Mathematical Society, Providence, RI, 2015. xx+451 pp.
213. V. Milman, L. Rotem
Characterizing addition of convex sets by polynomiality of volume and by the homothety operation.
Commun. Contemp. Math. 17 (2015), no. 3, 1450022, 22 pp.
214. V. Milman, L. Rotem
Characterizing the radial sum for star bodies.
Geometric aspects of functional analysis, 319–329, Lecture Notes in Math., 2169, Springer, Cham, 2017.
215. V. Milman, L. Rotem
“Irrational” constructions in convex geometry.
L.Algebra i Analiz 29 (2017), no. 1, 222–236.
216. V. Milman, L. Rotem
Powers and Logarithms of Convex Bodies.

- Comptes Rendus Mathématique (To appear).
217. H. Koenig, V. Milman
Operator Relations Characterizing Derivatives.
Book, 225 pp., submitted.
218. D. Faifman, H. Koenig, V. Milman
Submultiplicative operators on C^k -spaces.
to appear.