

Prof. Dr. Horst Martini
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C U R R I C U L U M V I T A E

Horst Martini

1. Personal information

Date of Birth: May 3, 1954

Place of Birth: Großröhrsdorf (Saxony/Germany)

Home address: A.-Zschiedrich-Str. 34
D-01900 Bretnig-Hauswalde
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2. Qualification and Education

- 1960 – 1972 School and Gymnasium (Abitur)
- 1972 – 1974 Military Service
- 1974 – 1978 Study in Dresden
(Teacher for Mathematics, Geography, and Astronomy)
- 1978 – 1980 Teacher in Großröhrsdorf
- 1980 – 1989 Scientific Assistant
(Dept. of Geometry, PH Dresden)
- 1984 Dissertation, PH Dresden (Classical Geometry)
- 1988 Habilitation, Schiller University, Jena (Geometric Convexity)
- 1989 – 1993 Assistant Professor (PH and TU Dresden)
- 1993 – today Full Professor (Geometry), Mathematics Faculty
at the University of Technology, Chemnitz
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3. Teaching Experience

Courses:

Basic Courses in Algebra and Analysis, Projective Geometry, Non-Euclidean Geometries, Geometric Convexity, Algebraic Topology, Computational Geometry, Differential Geometry, Discrete Geometry, Algebraic Geometry, Combinatorial Geometry, History of Mathematics, Foundations of Mathematics

4. Bursaries, Prizes and Research Visits

1985	University Research Prize
1988 – 1989	Stipend of the Hungarian Academy of Sciences (Mathematical Institute, Budapest, 5 months)
1990	Stipend of the DAAD (University of Augsburg, 1 month)
1992	Stipend of the Humboldt Foundation (University of Trier, 3 months)
2006	Two-months research visit at the Hungarian Academy of Sciences (Mathematics Institute), supported by the European Union
2009	Two-months research visit at the Hungarian Academy of Sciences (Mathematical Institute) supported by the European Union

Regular participation at international conferences all over the world, several research visits (such as “Research in Pairs” at the Oberwolfach Institute).

5. Further Activities

- Editor-in-Chief and Managing Editor of the journal “Beiträge zur Algebra und Geometrie”

- Member of the Editorial Board of the “Journal of Optimization Theory and Applications”
- Member of the Editorial Board of the journal “Mathematical Inequalities and Applications”
- Member of the Editorial Board of the journal “Extracta Mathematicae”
- Member of the International Advisory Board of the “Jordan Journal of Mathematics & Statistics”
- Work for “Zentralblatt der Mathematik”

List of Publications (Horst Martini)

1. Research papers and research surveys

1. E. BOHNE, H. MARTINI: Extremalaussagen zum Kompositionslichtstrom von Konfigurationen ebener Flächen und konvexen Polyedern bei geometrischer Zentralbeleuchtung. *Wiss. Zeitschr. PH Dresden* **16** (1982), 67-74.
MR 85 i: 51031.
2. H. MARTINI: Aussagen zum optimalen Kompositionslichtstrom regulärer und halbbregulärer Polyeder. *Wiss. Zeitschr. PH Dresden* **17** (1983), *Math.-Naturwiss. Reihe*, 23-31.
MR 85 h: 52008.
3. E. BOHNE, H. MARTINI, J. WENZEL: Zur konstruktiven Geometrie. *Wiss. Zeitschr. PH Dresden* **17** (1983), *Math.-Naturwiss. Reihe*, 13-22.
MR 85 e: 51001.
4. H. MARTINI, B. WEISSBACH: Zur besten Beleuchtung konvexer Polyeder. *Beiträge zur Algebra und Geometrie* **17** (1984), 151-168.
MR 85 j: 52017.
5. H. MARTINI: Zur Bestimmung konvexer Polytope durch die Inhalte ihrer Projektionen. *Beiträge zur Algebra und Geometrie* **18** (1984), 75-85.
MR 86 g: 52016.
6. H. MARTINI: Kombinatorische Probleme bei der Parallelbeleuchtung von Eikörpern. *Proc. Conf. Geometry & Combinatorics, TH Karl-Marx-Stadt* (1984), 125-130.
MR 87 i: 52016.
7. H. MARTINI: Zur Parallelbeleuchtung der Kugel im E^d . *Wiss. Zeitschr., PH Dresden* **18** (1984), *Math.-Naturwiss. Reihe*, 47-50.
MR 87 e: 52011.
8. H. MARTINI: Über scharfe Schattengrenzen und Schnitte konvexer Polytope. *Beiträge zur Algebra und Geometrie* **19** (1985), 105-112.
MR 86 f: 52015.
9. G. GEISE, H. MARTINI: Natürlich-kinematische Erzeugung isophotischer Elementarscharen aus ebensolchen bei geometrischer Zentralbeleuchtung. *Beiträge zur Algebra und Geometrie* **20** (1985), 137-146.
MR 86 j: 51028.

10. H. MARTINI: Exact determination of the surface area of convex polytopes from projections. *Proc. Workshop Geom. Problems Image Processing, Geobild '85*, Wiss. Beiträge FSU Jena (1985), 33-36.
RŽ 1987: 3 V 426.
11. H. MARTINI: Hyperebenen in besonderer Lage zu finiten Punktmengen. *Wiss. Zeitschr. PH Dresden* **19** (1985), *Math.-Naturwiss. Reihe*, 75-80.
MR 87 j: 52014.
12. H. MARTINI: Parallelbeleuchtung konvexer Körper mit glatten Rändern. *Beiträge zur Algebra und Geometrie* **21** (1986), 109-124.
MR 87 m: 51061.
13. B. KOST, H. MARTINI: Isophotische Elementscharen im E^4 . *Wiss. Zeitschr. PH Dresden* **21** (1987), *Math.-Naturwiss. Reihe*, 21-24.
MR 89 k: 51027.
14. H. MARTINI: Zum homogenen Ausleuchten konvexer Polytope. *Beiträge zur Algebra und Geometrie* **22** (1986), 71-79.
MR 88 b: 52015.
15. H. MARTINI: Some results and problems around zonotopes. *Coll. Math. Soc. J. Bolyai* **48** (Intuitive Geometry), North-Holland Publ. Co., Amsterdam et al., 1987, 383-418.
MR 89: e: 52013.
16. H. MARTINI: Some characterizing properties of the simplex. *Geometriae Dedicata* **29** (1988), 1-6.
MR 90 d: 52005.
17. H. MARTINI: On inner quermasses of convex bodies. *Archiv der Mathematik* **52** (1989), 402-406.
MR 90 g: 52012.
18. H. MARTINI: Determining classes of convex bodies by restricted sets of Steiner symmetrizations. *Geometriae Dedicata* **30** (1989), 247-254.
MR 90 e: 52002.
19. H. MARTINI: Das Volumen spezieller konvexer Polytope. *Elemente der Mathematik* **44** (1989), 113-115.
MR 90 k: 52011.
20. E. MAKAI, H. MARTINI: A lower bound on the number of sharp shadow-boundaries of convex polytopes. *Periodica Mathematica Hungarica* **20** (1989), 249-260.
MR 91 h: 52005.

21. H. MARTINI: X-ray pictures of convex sets. *Mathematical Research* **51** (1989), 147-152.
Zbl. 664.52007.
22. H. MARTINI, M. H. NGUEN, V. P. SOLTAN: On Eggleston's theorem about affine diameters. *Mathematika* **37** (1990), 81-84.
MR 91 g: 52002.
23. H. MARTINI: A contribution to the light field theory. *Beiträge zur Algebra und Geometrie* **30** (1990), 193-201.
MR 91 f: 52003.
24. E. MAKAI, H. MARTINI: A new characterization of convex plates of constant width. *Geometriae Dedicata* **34** (1990), 199-209.
MR 91 g: 52001.
25. H. MARTINI: A new view on some characterizations of simplices. *Archiv der Mathematik* **55** (1990), 389-393.
MR 92 a: 52002.
26. N. M. KORNEENKO, H. MARTINI: Approximating finite weighted point sets by hyperplanes. *Lecture Notes Computer Science* **447** (1990), 276-286.
MR 1076032, MR 91 e: 68016.
27. H. MARTINI: Convex polytopes whose projection bodies and difference sets are polars. *Discrete and Computational Geometry* **6** (1991), 83-91.
MR 91 k: 52018.
28. G. GEISE, H. MARTINI: Bekannte Kurvenklassen in der Beleuchtungsgeometrie des E^d . *Elemente der Mathematik* **46** (1991), 73-78.
MR 93 a: 51016.
29. G. GEISE, H. MARTINI: Kinematik in der Beleuchtungsgeometrie des E^d . *Elemente der Mathematik* **46** (1991), 158-165.
MR 93 a: 51017.
30. E. MAKAI, H. MARTINI: On the number of antipodal and strictly antipodal pairs of points in finite subsets of R^d . In: *Applied Geometry and Discrete Mathematics (The Victor Klee Festschrift)*, Eds. P. Gritzmann and B. Sturmfels, DIMACS Series in Discrete Mathematics and Theoretical Computer Science, Vol. 4 (1991), 457-470.
MR 92 f: 52020.
31. H. MARTINI: Extremal equalities for cross-sectional measures of convex bodies. *Proceedings of the 3rd Congress of Geometry*, Ed. N. K. Stephanidis, Aristotle University Press, Thessaloniki (1992), 285-296.
MR 93 f: 52014.

32. H. MARTINI, U. SCHIEL: Cassini-Kurven in der Lichtfeldtheorie. *Journal of Geometry* **45** (1992), 121-130.
MR 93 h: 51030.
33. H. MARTINI, B. WEISSBACH: On quermasses of simplices. *Studia Sci. Math. Hungar.* **27** (1992), 213-222.
MR 94 b: 52012.
34. H. MARTINI: Das verallgemeinerte Fermat-Torricelli-Problem. *Proc. Coll. Geometry & Combinatorics*, Ed. W. Schöne, TU Chemnitz (1992), 51-56.
MR 1247020, Zbl. 790.51016.
35. H. MARTINI: Regular simplices in spaces of constant curvature. *American Mathematical Monthly* **100** (1993), 169-171.
MR 94 e: 52011.
36. N. M. KORNEENKO, H. MARTINI: Hyperplane approximation and related topics. In: *New Trends in Discrete and Computational Geometry*, Ed. J. Pach, Springer Series 'Algorithms & Combinatorics', Vol. 10, Springer, New York et al., 1993, 135-161.
MR 94 g: 68121.
37. E. HEIL, H. MARTINI: Special convex bodies. In: *Handbook of Convex Geometry*, Vol. A, Eds. P. M. Gruber and J. M. Wills, North-Holland Publ. Co., 1993, 347-385.
MR 94 h: 52001.
38. E. MAKAI, H. MARTINI: On the number of antipodal and strictly antipodal pairs of points in finite subsets of R^d , Part II. *Periodica Mathematica Hungarica* **27** (1993), 185-198.
MR 95 d: 52016.
39. Y. KUPITZ, H. MARTINI: The Fermat-Torricelli problem and isosceles tetrahedra. *Journal of Geometry* **49** (1994), 150-162.
MR 95 d: 51015.
40. H. MARTINI: Neuere Ergebnisse der Elementargeometrie. In: *Geometrie und ihre Anwendungen*, Hrsg. O. Giering u. J. Hoschek, Carl Hanser Verlag, München und Wien, 1994, 9-42.
MR 95 i: 51019.
41. H. MARTINI: Reguläre Polytope und Verallgemeinerungen, In: *Geometrie und ihre Anwendungen*, Hrsg. O. Giering u. J. Hoschek, Carl Hanser Verlag, München und Wien, 1994, 247-281.
MR 95 h: 52015.

42. H. MARTINI: Cross-sectional measures. In: *Coll. Math. Soc. J. Bolyai* **63** (Intuitive Geometry), North-Holland Publ. Co., Amsterdam et al., 1994, 269-310.
MR 97 b: 52008.
43. H. MARTINI: A hierarchical classification of Euclidean polytopes with regularity properties. In: *Polytopes – Abstract, Convex and Computational*, Eds. T. Bisztriczky, P. McMullen, R. Schneider, and A. Ivić-Weiss, NATO ASI Series, Ser. C (Mathematical and Physical Sciences), Vol. 440, Kluwer Academic Publishers, Dordrecht-Boston-London, 1994, 71-96.
MR 96 b: 52021.
44. H. MARTINI: Recent results in elementary geometry, Part II. In: *Symposia Gaussiana (Mathematics and Theoretical Physics)*, Eds. M. Behara, R. Fritsch, and R. G. Lintz. Walter de Gruyter, Berlin-New York, 1995, 419-443.
MR 96 h: 51013.
45. H. MARTINI: Minsum k -flats of finite point sets in R^d . *Studies in Locational Analysis* **7** (1995), 123-129.
Zbl. 891.90096.
46. V. BOLTYANSKI, H. MARTINI: Combinatorial geometry of belt bodies. *Results in Mathematics* **28** (1995), 224-249.
MR 97 e: 52004.
47. V. BOLTYANSKI, H. MARTINI, P. SOLTAN: Star-shaped sets in normed spaces. *Discrete and Computational Geometry* **15** (1996), 63-71.
MR 97 c: 52009.
48. V. BOLTYANSKI, H. MARTINI: On maximal primitive fixing systems. *Beiträge zur Algebra und Geometrie* **37** (1996), 199-207.
MR 97 d: 52002.
49. Y. S. KUPITZ, H. MARTINI, B. WEGNER: A linear-time construction of Reuleaux polygons. *Beiträge zur Algebra und Geometrie* **37** (1996), 415-427.
MR 97 h: 52018.
50. H. MARTINI: Shadow-boundaries of convex bodies. *Discrete Mathematics* **155** (1996), 161-172.
MR 97 j: 52005.
51. H. MARTINI: On the theorem of Napoleon and related topics. *Mathematische Semesterberichte* **43** (1996), 47-64.
MR 99 c: 51027.

52. E. MAKAI, H. MARTINI: The cross-section body, plane sections of convex bodies and approximation of convex bodies, Part I. *Geometriae Dedicata* **63** (1996), 267-296.
MR 97 m: 52013.
53. E. MAKAI, H. MARTINI: On bodies associated with a given convex body. *Canadian Mathematical Bulletin* **39** (1996), 448-459.
MR 97 m: 52012.
54. H. MARTINI: Zur Geometrie der Hexagone. *Nieuw Archief voor Wiskunde*, Ser. 4 (**14**), no. 3 (1996), 329-342.
MR 97 m: 51016.
55. H. MARTINI: A geometric generalization of the Vecten-Fasbender duality. *Studies in Locational Analysis* **10** (1996), 53-65.
MR 1704074, MR 2000 c: 90008, Zbl. 0906.90106
56. H. MARTINI: The three-circles theorem, Clifford configurations, and equilateral zonotopes. *Proceedings of the 4th International Congress on Geometry*, Eds. N. K. Artémiadis and N. K. Stephanidis, Academy of Athens and Aristotle University of Thessaloniki, 1997, 281-292.
MR 98 i: 52003.
57. Y. S. KUPITZ, H. MARTINI: Geometric aspects of the generalized Fermat-Torricelli problem. In: *Intuitive Geometry* (Budapest, 1995), Eds. I. Bárány and K. Böröczky. *Bolyai Society Mathematical Studies* **6** (1997), 55-127.
MR 98 g: 52015.
58. H. MARTINI: Sätze über Fünfecke. *Nieuw Archief voor Wiskunde*, Ser. 4 (**15**), no. 1-2 (1997), 27-39.
MR 98 e: 51026.
59. H. MARTINI, V. SOLTAN: Minimum convex partition of polygonal domains by guillotine cuts. *Discrete and Computational Geometry* **19** (1998), 291-304.
MR 98 m: 52025.
60. E. MAKAI, H. MARTINI: The cross-section body, plane sections of convex bodies and approximation of convex bodies, Part II. *Geometriae Dedicata* **70** (1998), 283-303.
MR 99 d: 52005.
61. H. MARTINI, E. MAKAI, V. SOLTAN: Unilateral tilings of the plane with squares of three sizes. *Beiträge zur Algebra und Geometrie* **39** (1998), 481-495.
MR 99 i: 52023.

62. H. MARTINI, A. SCHÖBEL: Median hyperplanes in normed spaces – a survey. *Discrete Applied Mathematics* **89** (1998), 181-195.
MR 99 h: 65242.
63. H. MARTINI, P. S. SOLTAN: On convex partitions of polygonal regions. *Discrete Mathematics* **195** (1999), 167-180.
MR 99 j: 52016.
64. H. MARTINI, B. WEISSBACH: Napoleon's theorem with weights in n -space. *Geometriae Dedicata* **74** (1999), 213-223.
MR 2000 a: 51021.
65. H. MARTINI, V. SOLTAN: Combinatorial problems on the illumination of convex bodies. *Aequationes Mathematicae* **57** (1999), 121-152.
MR 2000 b: 52006.
66. H. MARTINI, V. SOLTAN: A characterization of simplices in terms of visibility. *Archiv der Mathematik* **72** (1999), 461-465.
MR 2000 f: 52015.
67. V. BOLTYANSKI, H. MARTINI: Fixing and hindering systems in combinatorial geometry. *Beiträge zur Algebra und Geometrie* **40** (1999), 551-563.
MR 2000 i: 52007.
68. H. MARTINI, V. SOLTAN: Minimum number of pieces in a convex partition of a polygonal domain. *International Journal of Computational Geometry and Applications* **9** (1999), 599-614.
MR 2000 i: 52026.
69. H. MARTINI, A. SCHÖBEL: Two characterizations of smooth norms. *Geometriae Dedicata* **77** (1999), 173-183.
MR 2000 h: 52034.
70. V. BOLTYANSKI, H. MARTINI, V. SOLTAN: On Grünbaum's conjecture about inner illumination of convex bodies. *Discrete and Computational Geometry* **22** (1999), 403-410.
MR 2001 f: 52007.
71. H. MARTINI, A. SCHÖBEL: Hyperplane transversals of homothetical, centrally symmetric polytopes. *Periodica Mathematica Hungarica* **39** (1999), 73-81.
MR 2001 e: 52019.
72. H. MARTINI, V. SOLTAN: Primitive inner illuminating systems for convex bodies. *Geometriae Dedicata* **80** (2000), 81-97.
MR 2001 d: 52012.

73. Y. S. KUPITZ, H. MARTINI: On the isoperimetric inequalities for Reuleaux polygons. *Journal of Geometry* **68** (2000), 171-191.
MR 2001 h: 52006.
74. G. WEISS, H. MARTINI: Geometric illumination and isophotic curves and surfaces. *Proceedings of the 9th International Conference on Geometry and Graphics* (Johannesburg/South Africa, July 2000), Ed. J. Pretorius, Rand Afrikaans University Press, Johannesburg, 2000, Vol. 2, 373-378.
75. Y. S. KUPITZ, H. MARTINI: On the weak circular intersection property. *Studia Sci. Math. Hungar.* **36** (2000), 371-385.
MR 2001 h: 52001.
76. Y. S. KUPITZ, H. MARTINI: On the equation $x^y = y^x$. *Elemente der Mathematik* **55** (2000), 95-101.
MR 2002 a: 11025.
77. G. WEISS, H. MARTINI: On curves and surfaces in illumination geometry. *Journal of Geometry and Graphics* **4** (2000), 169-180.
MR 2002 a: 53006.
78. E. MAKAI, H. MARTINI, T. ÓDOR: Maximal sections and centrally symmetric bodies. *Mathematika* **47** (2000), 19-30.
MR 2003 e: 52005.
79. V. BOLTYANSKI, H. MARTINI: Carathéodory's theorem and H -convexity, *Journal of Combinatorial Theory, Ser. A* **93** (2001), 292-309.
MR 2001 j: 52004.
80. Y. S. KUPITZ, H. MARTINI: From intersectors to successors. *Graphs and Combinatorics* **17** (2001), 99-111.
MR 2002 c: 05118.
81. E. MAKAI, H. MARTINI, T. ÓDOR: On an integro-differential transform on the sphere. *Studia Sci. Math. Hungar.* **38** (2001), 299-312.
MR 2002 m: 44002.
82. H. MARTINI, K. J. SWANEPOEL, G. WEISS: The geometry of Minkowski spaces – a survey. Part I. *Expositiones Mathematicae* **19** (2001), 97-142.
MR 2002 h: 46015.
83. V. BOLTYANSKI, H. MARTINI: Covering belt bodies by smaller homothetical copies. *Beiträge zur Algebra und Geometrie* **42** (2001), 313-324.
MR 2002 h: 52026.

84. H. MARTINI, A. SCHÖBEL: Median and center hyperplanes in Minkowski spaces – a unified approach. *Discrete Mathematics* **241** (2001), 407-426.
MR 2002 m: 51002.
85. Y. S. KUPITZ, H. MARTINI: Geometric graphs and curves of constant width. *Congressus Numerantium* **152** (2001), 149-158.
MR 2002 k: 05166, Zbl. 1002.05051
86. H. MARTINI, W. WENZEL: Covering and packing problems in lattices associated with the n -cube. *European Journal of Combinatorics* **23** (2002), 63-75.
MR 2002 k: 52029.
87. H. MARTINI, W. WENZEL: Tetrahedra are not reduced. *Applied Mathematics Letters* **15** (2002), 881-884.
MR 2003 f: 52009.
88. B. WEISSBACH, H. MARTINI: On the chiral Archimedean solids. *Beiträge zur Algebra und Geometrie* **43** (2002), 121-133.
MR 2003 e: 52018.
89. H. MARTINI, W. WENZEL: A characterization of convex sets via visibility. *Aequationes Mathematicae* **64** (2002), 128-135.
MR 2003 h: 52004.
90. H. MARTINI, K. J. SWANEPOEL, G. WEISS: The Fermat-Torricelli problem in normed planes and spaces. *Journal of Optimization Theory and Applications* **115** (2002), 283-314.
MR 2003 m: 90064.
91. Y. S. KUPITZ, H. MARTINI, B. WEGNER: Diameter graphs and full equi-intersectors in classical geometries. *Rendiconti del Circolo Matematico di Palermo* (2), Suppl. **70**, Part II (2002), 65-74.
MR 1962586, Zbl. 1113.51007.
92. H. MARTINI, P. SOLTAN: On the homologies of multi-ary relations. *Journal of Combinatorial Mathematics and Combinatorial Computing* **45** (2003), 219-243.
MR 2004 c: 55012.
93. Z. SCHUR, M. A. PERLES, H. MARTINI, Y. S. KUPITZ: On the number of maximal regular simplices determined by n points in \mathbb{R}^d . In: *Discrete and Computational Geometry – The Goodman-Pollack Festschrift*, Eds. B. Aronov, S. Basu, J. Pach, and M. Sharir, Springer Series ‘Algorithms & Combinatorics’, Vol. 25, Springer, New York et al., 2003, 767-787.
MR 2004 m: 52017.

94. H. MARTINI, W. WENZEL: An analogue of the Krein-Milman theorem for star-shaped sets. *Beiträge zur Algebra und Geometrie* **44** (2003), 441-449.
MR 2004 k: 52007.
95. H. MARTINI, W. WENZEL: Simplices with congruent k -faces. *Journal of Geometry* **77** (2003), 136-139.
MR 2004 h: 52014.
96. H. MARTINI, V. SOLTAN: A theorem on affine diameters of convex polytopes. *Acta Scientiarum Mathematicarum (Szeged)* **69** (2003), 431-440.
MR 2004 d: 52010.
97. V. BOLTYANSKI, H. MARTINI: Minkowski addition of H -convex sets and related Helly-type theorems. *Journal of Combinatorial Theory, Ser. A* **103** (2003), 323-336.
MR 2004 k: 52009.
98. H. MARTINI, K. J. SWANEPOEL: Generalized convexity notions and combinatorial geometry. *Congressus Numerantium* **164** (2003), 65-93.
MR 2004 m: 52015.
99. H. MARTINI, K. J. SWANEPOEL, G. WEISS: Some location problems in normed linear spaces. *Proceedings of the Dresden Symposium on Geometry* (Dresden, 2003), TU Dresden Print, Dresden (2003), 198-211.
MR 2057088, Zbl. 1073.52504.
100. Y. S. KUPITZ, H. MARTINI: On the monotonicity of $\frac{\sin x}{x}$ near 0 from the ancient to a modern point of view. *The Mathematics Student* **72** (2003), 149-161.
MR 2288388, Zbl. 1140.51304
101. H. MARTINI, K. J. SWANEPOEL: Equiframed curves – a generalization of Radon curves. *Monatshefte für Mathematik* **141** (2004), 301-314.
MR 2005 a: 52005.
102. H. MARTINI, K. J. SWANEPOEL: Non-planar simplices are not reduced. *Publicationes Mathematicae Debrecen* **64** (2004), 101-106.
MR 2004 m: 52007.
103. H. MARTINI, K. J. SWANEPOEL: The geometry of Minkowski spaces – a survey. Part II. *Expositiones Mathematicae* **22** (2004), 93-144.
MR 2005 h: 46028.
104. E. MAKAI, JR., H. MARTINI: On maximal k -sections and related common transversals of convex bodies. *Canadian Mathematical Bulletin* **47** (2004), 246-256.
MR 2005 d: 52007.

105. G. AVERKOV, H. MARTINI: A characterization of constant width in Minkowski planes. *Aequationes Mathematicae* **68** (2004), 38-45.
MR 2006 g: 52002.
106. A. BORDEI, H. MARTINI, P. SOLTAN: Dilute homologies and fixed elements in a complex of multi-ary relations. *Utilitas Mathematica* **66** (2004), 267-286.
MR 2106224, Zbl. 1067.57018.
107. H. MARTINI, W. WENZEL: Illumination and visibility problems in terms of closure operators. *Beiträge zur Algebra und Geometrie* **45** (2004), 607-614.
MR 2005 e: 52002.
108. M. LASSAK, H. MARTINI: Reduced bodies in Minkowski space. *Acta Mathematica Hungarica* **106** (2005), 17-26.
MR 2005 m: 52008
109. H. MARTINI, V. SOLTAN: Antipodality properties of finite sets in Euclidean space. *Discrete Mathematics* **290** (2005), 221-228.
MR 2005 i: 52017.
110. V. BOLTYANSKI, H. MARTINI: Separability of H -convex sets. *Journal of Convex Analysis* **12** (2005), 131-137.
MR 2006 a: 52001.
111. A. L. EDMONDS, M. HAJJA, H. MARTINI: Orthocentric simplices and their centers. *Results in Mathematics* **47** (2005), 266-295.
MR 2006 e: 51021.
112. A. L. EDMONDS, M. HAJJA, H. MARTINI: Coincidences of simplex centers and related facial structures. *Beiträge zur Algebra und Geometrie* **46** (2005), 491-512.
MR 2006 j: 51020
113. H. MARTINI, W. WENZEL: Symmetrization of closure operators and visibility. *Annals of Combinatorics* **9** (2005), 431-450.
MR 2006 j: 06009
114. Y. S. KUPITZ, H. MARTINI, M. A. PERLES: Finite sets in \mathbb{R}^d with many diameters – a survey. In: *Proceedings of the International Conference on Mathematics and Applications* (ICMA-MU 2005, Bangkok), Mahidol University Press, Bangkok, 2005, 91-112. Reprinted in a special volume of the *East-West Journal of Mathematics: Contributions in Mathematics and Applications* (2007), 41-57.
Zbl. 1138.52306, Zbl. 1141.51300

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