

PUBLICATIONS OF KÁROLY BEZDEK

November 24, 2025

1980:

[1] K. Bezdek, *Mosaics with each face having the same number of neighbours*, Mat. Lapok 28 (1980), 297-303.

1982:

[2] K. Bezdek, *Ausfüllung eines Kreises durch kongruente Kreise in der hyperbolischen Ebene*, Studia Scientiarum Mathematicarum Hungarica 17 (1982), 353-366.

1983:

[3] K. Bezdek, *Über Ionenpackungen*, Studia Scientiarum Mathematicarum Hungarica 18 (1983), 277-285.

[4] K. Bezdek, *Über einige Kreisüberdeckungen*, Beiträge zur Alg. und Geom. 14 (1983), 7-13.

1984:

[5] A. Bezdek und K. Bezdek, *Eine hinreichende Bedingung für die Überdeckung des Einheitswürfels durch homothetische Exemplare im n -dimensionalen euklidischen Raum*, Beiträge zur Alg. und Geom. 17 (1984), 5-21.

1985:

[6] K. Bezdek, *Ein elementarer Beweis für die isoperimetrische Ungleichung in der euklidischen und hyperbolischen Ebene*, Annales Univ. Sci. Budapest Sect. Math. 27 (1985), 107-112.

[7] K. Bezdek, *Ausfüllungen in der hyperbolischen Ebene durch endliche Anzahl kongruenter Kreise*, Annales Univ. Sci. Budapest Sect. Math. 27 (1985), 113-124.

[8] K. Bezdek, *Über einige optimale Konfigurationen von Kreisen*, Annales Univ. Sci. Budapest Sect. Math. 27 (1985), 143-151.

[9] A. Bezdek und K. Bezdek, *Über einige dünnste Kreisüberdeckungen konvexer Bereiche durch endliche Anzahl von kongruenten Kreisen*, Beiträge zur Alg. und Geom. 19 (1985), 159-168.

[10] K. Bezdek und I. Joó, *Stufenkonvexität in der Geometrie*, Beiträge zur Alg. und Geom. 19 (1985), 169-175.

[11] K. Bezdek and J. Pach, *A point set everywhere dense in the plane*, Elem. der Math. 40 (1985), 81-84.

1986:

[12] A. Bezdek and K. Bezdek, *When is it possible to translate a convex polyhedron in another one?*, Studia Scientiarum Mathematicarum Hungarica 21 (1986), 336-342.

[13] A. Bezdek, K. Bezdek and K. Böröczky, *On compact packings*, Studia Scientiarum Mathematicarum Hungarica 21 (1986), 343-346.

[14] A. Bezdek and K. Bezdek, *Enclosing a set by sets*, Studia Scientiarum Mathematicarum Hungarica 21 (1986), 409-413.

[15] K. Bezdek, *On a Dido-type question*, Annales Univ. Sci. Budapest Sect. Math. 29 (1986), 241-244.

[16] K. Bezdek, *Circle-packings into convex domains of the Euclidean and hyperbolic plane and the sphere*, Geometriae Dedicata 21 (1986), 249-255.

[17] K. Bezdek, *Ionpackings in the space*, Beiträge zur Alg. und Geom. 22 (1986), 81-88.

[18] K. Bezdek, *A remark about the directed line-elements in the plane*, Beiträge zur Alg. und Geom. 22 (1986), 89-94.

1987:

[19] A. Bezdek and K. Bezdek, *On the centroids of convex solids of revolution*, Annales Univ. Sci. Budapest Sect. Math. 30 (1987), 115-119.

[20] K. Bezdek, *Densest packing of small number of congruent spheres in polyhedra*, Annales Univ. Sci. Budapest Sect. Math. 30 (1987), 177-194.

[21] K. Bezdek, *Compact packings in Euclidean space*, Beiträge zur Alg. und Geom. 25 (1987), 79-84.

[22] K. Bezdek, *The thinnest holding-lattice of a set*, Monatshefte für Math. 103/3 (1987), 177-185.

[23] K. Bezdek, R. Connelly and G. Kertész, *On the average number of neighbours in spherical packing of congruent circles*, Coll. Math. Soc. J. Bolyai, Intuitive Geometry, North Holland 48 (1987), 37-52.

1988:

[24] K. Bezdek and R. Connelly, *Intersection points*, Annales Univ. Sci. Budapest Sect. Math. 31 (1988), 115-127.

[25] A. Bezdek and K. Bezdek, *A note on the ten-neighbor packings of equal balls*, Beiträge zur Alg. und Geom. 27 (1988), 49-53.

1989:

[26] A. Bezdek and K. Bezdek, *Polygonal cycles with large number of components*, Annales Univ. Sci. Budapest Sect. Math. 32 (1989), 209-214.

[27] K. Bezdek and R. Connelly, *Covering curves by translates of a convex set*, The American Mathematical Monthly 96/9 (1989), 789-806.

[28] A. Bezdek and K. Bezdek, *On the second smallest distance between finitely many points on the sphere*, Geom. Dedicata 29 (1989), 141-152.

[29] A. Bezdek and K. Bezdek, *On a discrete Dido-type question*, Elem. der Math. 44/4 (1989), 92-100.

[30] K. Bezdek und M. Schmitz, *Zur Zerlegung von Einheitskugelüberdeckungen des E^d in Einheitskugelpackungen*, Beiträge zur Alg. und Geom. 28 (1989), 65-82.

1990:

[31] K. Bezdek, T. Bisztriczky and R. Connelly, *On hyperplanes and polytopes*, Monatshefte für Math. 109 (1990), 39-48.

[32] A. Bezdek, K. Bezdek, E. Makai Jr. and P. McMullen, *Facets with fewest vertices*, Monatshefte für Math. 109/2 (1990), 89-96.

[33] K. Bezdek, *On billiard arcs*, Beiträge zur Alg. und Geom. 30 (1990), 155-166.

[34] K. Bezdek, *On planar tilings with finitely many sorts of tiles*, Topics in Combinatorics and Graph Theory, Physica-Verlag (1990), 79-85.

[35] K. Bezdek, *On certain translation covers*, Note di Mat. X/2 (1990), 279-286.

1991:

- [36] A. Bezdek, K. Bezdek and E. Makai Jr., *Interior points of the convex hull of few points in E^d* , Monatshefte für Math. 111 (1991), 181-186.
- [37] K. Bezdek, *The problem of illumination of the boundary of a convex body by affine subspaces*, Mathematika 38 (1991), 362-375.
- [38] A. Bezdek, K. Bezdek and T. Bisztriczky, *On the $(n - 2)$ -transversals of n convex subsets of the plane*, Geom. Dedicata 40 (1991), 263-268.
- [39] K. Bezdek and R. Connelly, *Lower bounds for packing densities*, Acta Math. Hungar. 57(3-4) (1991), 291-311.

1992:

- [40] K. Bezdek, *Research Problem 46*, Periodica Math. Hungar. 24(2) (1992), 119-121.
- [41] K. Bezdek, *Research Problem 47*, Periodica Math. Hungar. 24(2) (1992), 121.
- [42] K. Bezdek, *Research Problem 48*, Periodica Math. Hungar. 24(2) (1992), 122-123.
- [43] A. Bezdek, K. Bezdek and T. Bisztriczky, *On illumination in the plane by line segments*, Geom. Dedicata 41/1 (1992), 39-50.
- [44] K. Bezdek, *On the illumination of smooth convex bodies*, Arch. Math. 58 (1992), 611-614.
- [45] K. Bezdek, *On the illumination of unbounded closed convex sets*, Israel J. Math. 80 (1992), 87-96.
- [46] K. Bezdek, *Hadwiger's covering conjecture and its relatives*, Amer. Math. Monthly 99/10 (1992), 954-956.

1993:

- [47] K. Bezdek, Gy. Kiss and M. Mollard, *An illumination problem for zonoids*, Israel J. Math. 81 (1993), 265-272.
- [48] K. Bezdek, J. Ladvánszky and V. Zoller, *The Euler line revisited*, Elem. der Math. 48 (1993), 76-79.
- [49] K. Bezdek, *A note on the illumination of convex bodies*, Geom. Dedicata 45 (1993), 89-91.
- [50] K. Bezdek, *Hadwiger-Levi's covering problem revisited*, New Trends in Discrete and Computational Geometry, Springer-Verlag (1993), 199-233.
- [51] K. Bezdek and T. Bisztriczky, *Hadwiger's covering conjecture and low dimensional dual cyclic polytopes*, Geom. Dedicata 46 (1993), 279-286.

1994:

- [52] K. Bezdek, P. Brass and H. Harborth, *Maximum convex hulls of connected systems of segments and of polyominoes*, Contributions to Alg. and Geom. 35/1 (1994), 37-43.
- [53] K. Bezdek and T. Hausel, *Coating by cubes*, Contributions to Alg. and Geom. 35/1 (1994), 119-123.
- [54] K. Bezdek, *On affine subspaces that illuminate a convex set*, Contributions to Alg. and Geom. 35/1 (1994), 131-139.
- [55] A. Beutelspacher and K. Bezdek, *The Helly dimension relative to a lattice*, Coll. Math. Soc. J. Bolyai, Intuitive Geometry, Szeged (Hungary), North Holland 63 (1994), 11-16.
- [56] K. Bezdek and T. Zamfirescu, *A characterization of 3-dimensional convex sets with infinite X-ray number*, Coll. Math. Soc. J. Bolyai, Intuitive Geometry, Szeged (Hungary), North Holland 63 (1994), 33-68.
- [57] K. Bezdek and T. Hausel, *On the number of lattice hyperplanes which are needed to cover the lattice points of a convex body*, Coll. Math. Soc. J. Bolyai, Intuitive Geometry, Szeged (Hungary), North Holland 63 (1994), 27-31.

1995:

- [58] A. Bezdek, K. Bezdek and R. Connelly, *Finite and uniform stability of sphere coverings*, Discrete Comput. Geom. 13/3-4 (1995), 313-319.

[59] A. Bezdek and K. Bezdek, *A solution of Conway's fried potato problem*, Bulletin of the London Mathematical Society 27 (1995), 492-496.

1996:

[60] A. Bezdek and K. Bezdek, *Conway's fried potato problem revisited*, Archiv der Mathematik 66 (1996), 522-528.

[61] K. Bezdek, *Kepler's conjecture and the dodecahedral conjecture*, Mitteilungen der DMV 96-4 (1996), 52-54.

1997:

[62] K. Bezdek, *Light-sources that illuminate the boundary points all but the vertices of a convex polyhedron*, Periodica Math. Hungar. 34/1-2 (1997), 15-19.

[63] K. Bezdek and R. Connelly, *Minimal translation covers for sets of diameter 1*, Periodica Math. Hungar. 34/1-2 (1997), 21-25.

[64] K. Bezdek and T. Bisztriczky, *A proof of Hadwiger's covering conjecture for dual cyclic polytopes*, Geom. Dedicata 68 (1997), 29-41.

[65] K. Bezdek, *Isoperimetric inequalities and the dodecahedral conjecture*, Int. J. Math. 8/6 (1997), 759-780.

1998:

[66] A. Bezdek, K. Bezdek and R. Connelly, *Finite and uniform stability of sphere packings*, Discrete and Computational Geometry 20 (1998), 111-130.

[67] K. Bezdek and R. Connelly, *The minimum mean width translation cover for sets of diameter one*, Beiträge zur Alg. und Geom. 39/2 (1998), 473-479.

[68] K. Bezdek, *Combinatorial Geometry by János Pach and Pankaj K. Agarwal*, Bull. Amer. Math. Soc. 35/4 (1998), 341-342.

1999:

[69] K. Bezdek and G. Blekherman, *Danzer-Grünbaum's theorem revisited*, Periodica Mathematica Hungarica 39/1-3 (1999), 7-15.

[70] K. Bezdek, E. Daróczy-Kiss and K. J. Liu, *Voronoi polyhedra of unit ball packings with small surface area*, Periodica Mathematica Hungarica 39/1-3 (1999), 107-118.

[71] K. Bezdek and Zs. Lángi, *Almost equidistant points on S^{d-1}* , Periodica Mathematica Hungarica 39/1-3 (1999), 139-144.

[72] K. Bezdek and R. Connelly, *Two-distance preserving functions from Euclidean space*, Periodica Mathematica Hungarica 39/1-3 (1999), 185-200.

2000:

[73] K. Bezdek, *Space filling*, Handbook of Discrete and Combinatorial Mathematics, ed.: K. H. Rosen, CRC Press (2000), 824-830.

[74] K. Bezdek, *On a stronger form of Rogers's lemma and the minimum surface area of Voronoi cells in unit ball packings*, Journal für the reine und angewandte Mathematik 518 (2000), 131-143.

[75] K. Bezdek, *A lower bound for the mean width of Voronoi polyhedra of unit ball packings in E^3* , Arch. Math. 74 (2000), 392-400.

[76] K. Bezdek, *On rhombic dodecahedra*, Contributions to Alg. and Geom. 41/2 (2000), 411-416.

2001:

[77] K. Bezdek, G. Blekherman, R. Connelly and B. Csikós, *The polyhedral Tammes problem*, Archiv der Mathematik 76 (2001), 314-320.

2002:

[78] K. Bezdek, *On the maximum number of touching pairs in a finite packing of translates of a convex body*, Journal of Combinatorial Theory, Series A 98 (2002), 192-200.

[79] K. Bezdek, *Improving Rogers' upper bound for the density of unit ball packings via estimating the surface area of Voronoi cells from below in Euclidean d -space for all $d \geq 8$* , Discrete Comput. Geom. 28 (2002), 75-106.

[80] K. Bezdek and R. Connelly, *Pushing disks apart - the Kneser-Poulsen conjecture in the plane*, Journal für the reine und angewandte Mathematik 553 (2002), 221-236.

2003:

[81] K. Bezdek, M. Naszódi and B. Visy *On the m th Petty numbers of normed spaces*, Discrete Geometry: In honour of W. Kuperberg's 60th Birthday, Marcel Dekker 253 (2003), 291-304.

[82] K. Bezdek and P. Brass, *On k^+ -neighbour packings and one-sided Hadwiger configurations*, Contributions to Alg. and Geom. 44/2 (2003), 493-498.

[83] K. Bezdek and A. Blokhuis, *The Radon number of the 3-dimensional integer lattice*, Discrete Comput. Geom. 30 (2003), 181-184.

2004:

[84] K. Bezdek and R. Connelly, *The Kneser-Poulsen conjecture for spherical polytopes*, Discrete Comput. Geom. 32 (2004), 101-106.

[85] K. Bezdek, *Sphere packings in 3-space*, Proceedings of the COE Workshop on Sphere Packings (ed.: E. Bannai), Kyushu Univ. Press. (2004), 32-49.

2005:

[86] K. Bezdek, T. Bisztriczky and K. Böröczky, *Edge-antipodal 3-polytopes*, Combinatorial and Computational Geometry, MSRI Publications (Eds.: J. E. Goodman, J. Pach and E. Welzl), Cambridge Univ. Press (2005), 129-134.

[87] K. Bezdek and E. Daróczy-Kiss, *Finding the best face on a Voronoi polyhedron - the strong dodecahedral conjecture revisited*, Monatshefte für Math. 145 (2005), 191-206.

[88] K. Bezdek, *On the monotonicity of the volume of hyperbolic convex polyhedra*, Contributions to Alg. and Geom. 46/2 (2005), 609-614.

[89] K. Bezdek and M. Naszódi, *Rigidity of ball-polyhedra in Euclidean 3-space*, European J. Combin. 27/2 (2005), 255-268.

[90] K. Bezdek, *A note on the volume of hyperbolic convex polyhedra*, Rev. Roumaine Math. Pures Appl. 50/5-6 (2005), 461-467.

2006:

[91] K. Bezdek, R. Connelly and B. Csikós, *On the perimeter of the intersection of congruent disks*, Contributions to Alg. and Geom. 47/1 (2006), 53-62.

[92] K. Bezdek, *Sphere packings revisited*, European J. Combin. 27/6 (2006), 864-883.

[93] K. Bezdek, T. Bisztriczky, B. Csikós and A. Heppes, *On the transversal Helly numbers of disjoint and overlapping disks*, Arch. Math. 87/1 (2006), 86-96.

[94] K. Bezdek, M. Naszódi and D. Oliveros, *Antipodality in hyperbolic space*, J. Geom. 85/1-2 (2006), 22-31.

[95] K. Bezdek, *The illumination conjecture and its extensions*, Period. Math. Hungar. 53/1-2 (2006), 59-69.

[96] K. Bezdek, K. Böröczky and Gy. Kiss, *On the successive illumination parameters of convex bodies*, Period. Math. Hungar. 53/1-2 (2006), 71-82.

2007:

[97] K. Bezdek, Zs. Lángi, M. Naszódi and P. Papez, *Ball-polyhedra*, Discrete and Computational Geometry, Volume 38, Issue 2 (September, 2007), Pages 201-230.

[98] K. Bezdek and A. E. Litvak, *On the vertex index of convex bodies*, Advances in Mathematics, Volume 215, Issue 2 (November, 2007), Pages 626-641.

2008:

[99] K. Bezdek, *From the Kneser-Poulsen conjecture to ball-polyhedra*, European Journal of Combinatorics, Volume 29, Issue 8 (November, 2008), Pages 1820-1830.

[100] K. Bezdek and R. Connelly, *On the weighted Kneser-Poulsen conjecture*, Periodica Mathematica Hungarica, Volume 57, Issue 2 (December, 2008), Pages 5-12.

2009:

[101] K. Bezdek and A. E. Litvak, *Covering convex bodies by cylinders and lattice points by flats*, Journal of Geometric Analysis, Volume 19, Issue 2 (April, 2009), Pages 233-243.

[102] K. Bezdek and Gy. Kiss, *On the X-ray number of almost smooth convex bodies and of convex bodies of constant width*, Canadian Mathematical Bulletin, Volume 52, Issue 3 (September, 2009), Pages 342-348.

[103] D. Bezdek and K. Bezdek, *Shortest billiard trajectories*, Geometriae Dedicata, Volume 141, Issue 1 (August, 2009), Pages 197-206.

2010:

[104] K. Bezdek and R. Schneider, *Covering large balls with convex sets in spherical space*, Beiträge zur Algebra und Geometrie, Volume 51, Issue 1 (January, 2010), Pages 229-235.

[105] K. Bezdek, *Classical Topics in Discrete Geometry*, CMS Books in Mathematics, Springer, New York, 2010 (163 pages).

2011:

[106] K. Bezdek, *The illumination conjecture for spindle convex bodies*, Proceedings of the Steklov Institute of Mathematics, Volume 275, Issue 1 (December, 2011), Pages 169-176.

2012:

[107] K. Bezdek, *Illuminating spindle convex bodies and minimizing the volume of spherical sets of constant width*, Discrete and Computational Geometry, Volume 47, Issue 2 (March, 2012), Pages 275-287.

[108] K. Bezdek, *Contact numbers for congruent sphere packings in Euclidean 3-space*, Discrete and Computational Geometry, Volume 48, Issue 2 (September, 2012), Pages 298-309.

2013:

- [109] K. Bezdek, *On a strong version of the Kepler conjecture*, Mathematika, Volume 59, Issue 1 (January, 2013), Pages 23-30.
- [110] K. Bezdek and M. Naszódi, *Rigid ball-polyhedra in Euclidean 3-space*, Discrete and Computational Geometry, Volume 49, Issue 2 (March, 2013), Pages 189-199.
- [111] K. Bezdek and S. Reid, *Contact graphs of unit sphere packings revisited*, Journal of Geometry, Volume 104, Issue 1 (April, 2013), Pages 57-83.
- [112] K. Bezdek, *On minimal tilings with convex cells each containing a unit ball*, in "Discrete Geometry and Optimization" (Editors: K. Bezdek, A. Deza, and Y. Ye), Fields Institute Communications, Volume 69, Springer, New York (July, 2013), Pages 45-54.
- [113] K. Bezdek, A. Deza, and Y. Ye, *Selected open problems in discrete geometry and optimization*, in "Discrete Geometry and Optimization" (Editors: K. Bezdek, A. Deza, and Y. Ye), Fields Institute Communications, Volume 69, Springer, New York (July, 2013), Pages 321-336.
- [114] K. Bezdek, *Globally rigid ball-polyhedra in Euclidean 3-space*, Transactions on Computational Science, Volume XX, LNCS 8110 (November, 2013), Pages 158-169.
- [115] K. Bezdek, A. Deza, and Y. Ye (Editors), *Discrete Geometry and Optimization*, Fields Institute Communications, Volume 69, Springer, New York, 2013 (346 pages).
- [116] K. Bezdek, *Lectures on Sphere Arrangements - the Discrete Geometric Side*, Fields Institute Monographs, Volume 32, Springer, New York, 2013 (198 pages).

2014:

- [117] K. Bezdek, *Tarski's plank problem revisited*, in "Geometry - Intuitive, Discrete, and Convex" (Editors: I. Bárány, K. J. Böröczky, G. Fejes Tóth, and J. Pach), Bolyai Soc. Math. Studies, Volume 24, Springer, Berlin (July, 2014), Pages 45-64.
- [118] K. Bezdek, *Plank theorems via successive inradii*, in "Discrete Geometry and Algebraic Combinatorics" (Editors: A. Barg and O. Musin), Contemporary Mathematics, Volume 625, Amer. Math. Soc., Providence, RI (September, 2014), Pages 1-8.

2015:

- [119] K. Bezdek and Zs. Lángi, *Density bounds for outer parallel domains of unit ball packings*, Proceedings of the Steklov Institute of Mathematics, Volume 288, Issue 1 (January, 2015), Pages 209-225.
- [120] K. Bezdek and M. Naszódi, *Spindle starshaped sets*, Aequationes Mathematicae, Volume 89, Issue 3 (June, 2015), Pages 803-819.

2016:

- [121] K. Bezdek, B. Szalkai and I. Szalkai, *On contact numbers of totally separable unit sphere packings*, Discrete Mathematics, Volume 339, Issue 2 (February, 2016), Pages 668-676.
- [122] K. Bezdek and A. E. Litvak, *Packing convex bodies by cylinders*, Discrete and Computational Geometry, Volume 55, Issue 3 (March, 2016), Pages 725-738.
- [123] K. Bezdek and M. A. Khan, *On the covering index of convex bodies*, Aequationes Mathematicae, Volume 90, Issue 5 (October, 2016), Pages 879-903.
- [124] K. Bezdek and Zs. Lángi, *On non-separable families of positive homothetic convex bodies*, Discrete and Computational Geometry, Volume 56, Issue 3 (October, 2016), Pages 802-813.

2017:

- [125] K. Bezdek, *Space filling*, Handbook of Discrete and Combinatorial Mathematics, Editors: K. H. Rosen, J. G. Michaels, J. L. Gross, J. W. Grossman, and D. R. Shier, CRC Press, 2nd Edition (October, 2017), Pages 28-36.

2018:

[126] K. Bezdek, *From r -dual sets to uniform contractions*, Aequationes Mathematicae, Volume 92, Issue 1 (January, 2018), Pages 123-134.

<https://doi.org/10.1007/s00010-017-0516-5>

[127] K. Bezdek and M. A. Khan, *The geometry of homothetic covering and illumination*, in "Discrete Geometry and Symmetry" (Editors: M. Conder, A. Deza, and A. Ivic-Weiss), Springer Proceedings in Mathematics and Statistics, Volume 234, Springer (July, 2018), Pages 1-30.

<https://doi.org/10.1007/978-3-319-78434-2>

[128] K. Bezdek and M. Naszódi, *On contact graphs of totally separable packings in low dimensions*, Advances in Applied Mathematics, Volume 101 (October, 2018), Pages 266-280.

<https://doi.org/10.1016/j.aam.2018.08.003>

[129] K. Bezdek and M. Naszódi, *The Kneser-Poulsen conjecture for special contractions*, Discrete and Computational Geometry, Volume 60, Issue 4 (October, 2018), Pages 967-980.

<https://doi.org/10.1007/s00454-018-9976-1>

[130] K. Bezdek and M. A. Khan, *Contact numbers for sphere packings*, New Trends in Intuitive Geometry, Editors: G. Ambrus, I. Bárány, K. J. Böröczky, G. Fejes Tóth, J. Pach, Bolyai Society Mathematical Studies, Volume 27, Springer (December, 2018), Pages 25-48.

<https://doi.org/10.1007/978-3-662-57413-3>

2019:

[131] K. Bezdek and Zs. Lángi, *Minimizing the mean projections of finite ρ -separable packings*, Monatshefte für Mathematik, Volume 188, Issue 4 (April, 2019), Pages 611-620.

<https://doi.org/10.1007/s00605-018-1166-y>

[132] K. Bezdek and Zs. Lángi, *Volumetric Discrete Geometry*, Discrete Mathematics and Its Applications, Chapman and Hall - CRC Press, Boca Raton, FL, April, 2019 (286 pages).

<https://doi.org/10.1201/9780429274572>

[133] K. Bezdek, M. A. Khan, and M. Oliwa, *On contact graphs of totally separable domains*, Aequationes Mathematicae, Volume 93, Issue 4 (August, 2019), Pages 757-780.

<https://doi.org/10.1007/s00010-018-0617-9>

2020:

[134] K. Bezdek and Zs. Lángi, *Bounds for totally separable translative packings in the plane*, Discrete and Computational Geometry, Volume 63, Issue 1 (January, 2020), Pages 49-72.

<https://doi.org/10.1007/s00454-018-0029-6>

[135] K. Bezdek, *On uniform contractions of balls in Minkowski spaces*, Mathematika, Volume 66, Issue 2 (April, 2020), Pages 448-457.

<https://doi.org/10.1112/mtk.12009>

[136] K. Bezdek and Zs. Lángi, *From spherical to Euclidean illumination*, Monatshefte für Mathematik, Volume 192, Issue 3 (July, 2020), Pages 483-492.

<https://doi.org/10.1007/s00605-019-01355-w>

2021:

[137] K. Bezdek, *On contact numbers of locally separable unit sphere packings*, Mathematika, Volume 67, Issue 3 (July, 2021), Pages 714-729.

<https://doi.org/10.1112/mtk.12102>

[138] K. Bezdek, *Volumetric bounds for intersections of congruent balls in Euclidean spaces*, Aequationes Mathematicae, Volume 95, Issue 4 (August, 2021), Pages 653-665.

<https://doi.org/10.1007/s00010-021-00814-w>

2022:

[139] K. Bezdek and Zs. Lángi, *On k -diametral point configurations in Minkowski spaces*, Discrete Mathematics, Volume 345, Issue 2 (February, 2022), Paper No. 112700 (11 pages).

<https://doi.org/10.1016/j.disc.2021.112700>

[140] K. Bezdek, *On the intrinsic volumes of intersections of congruent balls*, Discrete Optimization, Volume 44, Part 1 (May, 2022), Paper No. 100539 (7 pages).

<https://doi.org/10.1016/j.disopt.2019.03.002>

2023:

[141] K. Bezdek, I. Ivanov, and C. Strachan, *Illuminating spiky balls and cap bodies*, Discrete Mathematics, Volume 346, Issue 1 (January, 2023), Paper No. 113135 (12 pages).

<https://doi.org/10.1016/j.disc.2022.113135>

[142] K. Bezdek, *On a strengthening of the Blaschke–Leichtweiss theorem*, Journal of Geometry, Volume 114, Issue 1 (April, 2023), Paper No. 114:2 (14 pages).

<https://doi.org/10.1007/s00022-022-00663-1>

[143] K. Bezdek, *On Blaschke-Santaló-type inequalities for r -ball bodies*, Mathematica Pannonica (New Series), Volume 29, Issue 2 (December, 2023), Pages 149-152.

<https://doi.org/10.1556/314.2023.00014>

2024

[144] K. Bezdek and Z. Lángi, *From the separable Tammes problem to extremal distributions of great circles in the unit sphere*, Discrete and Computational Geometry, Volume 72, Issue 1 (June, 2024), Pages 269-309.

<https://doi.org/10.1007/s00454-023-00509-w>

[145] K. Bezdek and Z. Lángi, *Remarks on soft ball packings in dimensions 2 and 3*, Studia Scientiarum Mathematicarum Hungarica, Volume 61, Issue 3 (November, 2024), Pages 251-261.

<https://doi.org/10.48550/arXiv.2310.04574>

2025

[146] K. Bezdek and Z. Lángi, *On separability in discrete geometry*, in special volume on "Discrete Geometry and Convexity", Bolyai Society Mathematical Studies, Springer Berlin, accepted for publication (January, 2025), 28 pages.

<https://doi.org/10.48550/arXiv.2407.20169>

[147] K. Bezdek and Z. Lángi, *On optimal λ -separable packings in the plane*, Ars Mathematica Contemporanea, Volume 25, Issue 2 (March, 2025), Paper No. 4 (28 pages).

<https://doi.org/10.26493/1855-3974.3130.d46>

[148] K. Bezdek and Z. Lángi, *Density bounds for unit ball packings relative to their outer parallel domains*, Pure and Applied Functional Analysis, Volume 10, Number 5 (November, 2025), Pages 1193-1205.

<http://yokohamapublishers.jp/online2/oppafa/vol10/p1193.html>

[149] K. Bezdek, Z. Lángi, and M. Naszódi, *Selected topics from the theory of intersections of balls*, Discrete Applied Mathematics, Volume 382 (November, 2025), Pages 60-82.

<https://doi.org/10.1016/j.dam.2025.11.040>