

LIST OF PUBLICATIONS

of

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1. Publications in Scientific Journals

[1.25] Alexander Barg, Peter Boyvalenkov, Maya Stoyanova, Bounds for the sum of distances of spherical sets of small size, 2021, submitted, <https://arxiv.org/abs/2105.03511>.

[1.24] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *Bounds for spherical codes: The Levenshtein framework lifted*, Mathematics of Computation, vol:90, issue:329, 2021, pages:1323-1356, ISSN (print):0025-5718, ISSN (online):1088-6842, <https://doi.org/10.1090/mcom/3621>, Ref Web of Science, IF: 2.417 (2020), Web of Science Quartile: Q₁ (JCR-2020), <https://www.ams.org/journals/mcom/2021-90-329/S0025-5718-2021-03621-2/>, <https://arxiv.org/abs/1906.03062>.

[1.23] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *Universal Bounds for Size and Energy of Codes of Given Minimum and Maximum Distances*, IEEE Transactions on Information Theory, vol:67, issue:6, 2021, pages:3569-3584, ISSN (print): 0018-9448, ISSN (online): 1557-9654, <http://dx.doi.org/10.1109/tit.2021.3056319>, Ref Web of Science, IF: 2.501 (2020), Web of Science Quartile: Q₂ (JCR-2020), <https://ieeexplore.ieee.org/document/9344843>, <https://arxiv.org/abs/1910.07274>.

[1.22] Silvia Boumova, Tedis Ramaj, Maya Stoyanova, *Computing distance distributions of ternary orthogonal arrays*, Comptes rendus de l'Académie bulgare des Sciences, vol:74, issue:2, 2021, pages:177-189, ISSN (print): 1310–1331, ISSN (online): 2367–5535, DOI:10.7546/CRABS.2021.02.03, Ref Web of Science, IF: 0.378 (2020), Web of Science Quartile: Q₄ (JCR-2020), http://www.proceedings.bas.bg/DOI/doi2021_2_03.html.

[1.21] Peter Boyvalenkov, Maya Stoyanova, *Linear programming bounds for covering radius of spherical designs*, Results in Mathematics, vol:76, issue:article number: 95, 2021, ISSN (print): 1422-6383, ISSN (online): 1420-9012, <https://doi.org/10.1007/s00025-021-01400-x>, Ref Web of Science, IF: 1.199 (2020), Web of Science Quartile: Q₂ (JCR-2020), <https://link.springer.com/article/10.1007%2Fs00025-021-01400-x>, <https://arxiv.org/abs/2007.05599>.

[1.20] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *Upper bounds for energies of spherical codes of given cardinality and separation*, Designs, Codes and Cryptography, vol:88, issue:9, 2020, pages: 1811-1826, ISSN (print): 0925-1022, ISSN (online): 1573-7586, <https://doi.org/10.1007/s10623-020-00733-y>, Ref Web of Science, Impact Factor: 1.492 (2020), Web of Science Quartile: Q₂ (JCR-2020), <https://link.springer.com/article/10.1007/s10623-020-00733-y>, <https://arxiv.org/abs/1909.00981>,

Announced in [2.19].

[1.19] S. Boumova, T. Marinova, T. Ramaj, M. Stoyanova, *Nonexistence of (17, 108, 3) ternary orthogonal array*, Annual of Sofia University "St. Kliment Ohridski", Faculty of Mathematics and Informatics, vol:106, 2019, pages:117-126, ISSN (print):1313-9215, ISSN (online):2603-5529, Ref MathSciNet (MR4125835), Ref zbMATH ([Zbl 07360437](#)),
<https://www.fmi.uni-sofia.bg/bg/nonexistence-17-108-3-ternary-orthogonal-array>.

[1.18] Peter Boyvalenkov, Peter Dragnev, Douglas Hardin, Edward Saff, Maya Stoyanova, *Energy Bounds for Codes in Polynomial Metric Spaces*, Analysis and Mathematical Physics, 2019, Volume 9, Issue 2, pages: 781-808, (in Conference Proceedings, as a special issue of the Journal "Analysis and Mathematical Physics", Received: 18 December 2018, Accepted: 11 April 2019, First Online: 06 June 2019), ISSN: 1664-2368 (Print), ISSN: 1664-235X (Online), <https://doi.org/10.1007/s13324-019-00313-x>, Ref Web of Science, Impact Factor: 2.056 (2019), Web of Science Quartile: Q₁ (JCR-2019),
<https://link.springer.com/article/10.1007/s13324-019-00313-x>,
<https://arxiv.org/abs/1804.07462>.

[1.17] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *On spherical codes with inner products in a prescribed interval*, Designs, Codes and Cryptography, 2019, volume 87, issue 2-3, pages: 299-315, (Received: 29 December 2017, Revised: 07 June 2018, Accepted: 17 July 2018, First Online: 26 July 2018), ISSN: 0925-1022 (Print), ISSN: 1573-7586 (Online), <https://doi.org/10.1007/s10623-018-0524-z>, Ref Web of Science, Impact Factor: 1.524 (2019), Web of Science Quartile: Q₂ (JCR-2019),
<https://link.springer.com/article/10.1007/s10623-018-0524-z>,
<https://arxiv.org/abs/1801.07334>.

Announced in [2.17].

[1.16] Peter Boyvalenkov, Danyo Danev, Maya Stoyanova, *Refinements of Levenshtein bounds in q-ary Hamming spaces*, Problems of Information Transmission, 2018, Vol. 54, Issue 4, pages: 329–342, (Original Russian Text Published in Problemy Peredachi Informatsii, 2018, Vol. 54, Issue 4, pages: 35–50, ISSN: 0555-2923, Received: 12 December 2017, Revised: 16 May 2018, Accepted: 10 August 2018, First Online: 28 January 2019), ISSN: 0032-9460 (Print), ISSN: 1608-3253 (Online), <https://doi.org/10.1134/S0032946018040026>, Ref Web of Science, Impact Factor: 0.557 (2018), Web of Science Quartile: Q₄ (JCR-2018),
<https://link.springer.com/article/10.1134/S0032946018040026>,
<https://arxiv.org/abs/1801.01982>.

[1.15] Tanya Marinova, Maya Stoyanova, *Nonexistence of (9, 112, 4) and (10, 224, 5) binary orthogonal arrays*, Electronic Notes in Discrete Mathematics, 2017, Vol. 57, pages: 153–159, (Algebraic and combinatorial coding theory – 2016, Selected papers from the 15th international workshop (ACCT-XV), Albena, Bulgaria, June 18–24, 2016), ISSN: 1571-0653 (Print), <http://doi.org/10.1016/j.endm.2017.02.026>,
Ref Scopus, SJR: 0.262 (2017),
<http://www.sciencedirect.com/science/article/pii/S1571065317300264>,
Announced in [1.15a].

[1.14] P. Boyvalenkov, P. Dragnev, D. Hardin, E. Saff, M. Stoyanova, *Universal Lower Bounds on Energy and LP-Extremal Polynomials for (4,24)-Codes*, Electronic Notes in Discrete Mathematics, 2017, Vol. 57, pages: 91–96, (Algebraic and combinatorial coding theory – 2016,

Selected papers from the 15th international workshop (ACCT-XV), Albena, Bulgaria, June 18–24, 2016), ISSN: 1571-0653 (Print), <http://dx.doi.org/10.1016/j.endm.2017.02.016>, Ref Scopus, SJR: 0.262 (2017), <http://www.sciencedirect.com/science/article/pii/S1571065317300161>, Announced in [1.14a].

[1.13] Peter Boyvalenkov, Tanya Marinova, Maya Stoyanova, *Nonexistence of a few binary orthogonal arrays*, Discrete Applied Mathematics, 2017, Vol. 217, Issue 2, pages: 144–150, (Available online: 30 August 2016), ISSN: 0166-218X (Print), <https://doi.org/10.1016/j.dam.2016.07.023>, Ref Web of Science, Impact Factor: 0.932 (2017), Web of Science Quartile: Q₃ (JCR-2017), <http://www.sciencedirect.com/science/article/pii/S0166218X1630364X>, <http://arxiv.org/abs/1604.06117>, Announced in [2.15].

[1.12] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *Energy bounds for codes and designs in Hamming spaces*, Designs, Codes and Cryptography, 2017, Vol. 82, Issue I, pages 411–433, (Received: 12 October 2015, Revised: 23 September 2016, Accepted: 26 September 2016, First Online: 14 October 2016), ISSN: 0925-1022 (Print), ISSN: 1573-7586 (Online), <https://doi.org/10.1007/s10623-016-0286-4>, Ref Web of Science, Impact Factor: 1.114 (2017), Web of Science Quartile: Q₂ (JCR-2017), <http://link.springer.com/article/10.1007%2Fs10623-016-0286-4>, <https://arxiv.org/abs/1510.03406>, Announced in [2.14].

[1.11] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *Universal lower bounds for potential energy of spherical codes*, Constructive Approximation, 2016, Vol. 44, Issue 3, pages: 385–415, (Received: 24 March 2015, Revised: 02 November 2015, Accepted: 11 December 2015, First Online: 29 February 2016), ISSN: 0176-4276 (Print), ISSN: 1432-0940 (Online), <https://doi.org/10.1007/s00365-016-9327-5>, Ref Web of Science, Impact Factor: 0.964 (2016), Web of Science Quartile: Q₁ (JCR-2016), <http://link.springer.com/article/10.1007/s00365-016-9327-5>, <https://arxiv.org/abs/1503.07228>.

[1.10] P. G. Boyvalenkov, P. D. Dragnev, D. P. Hardin, E. B. Saff, M. M. Stoyanova, *Universal upper and lower bounds on energy of spherical designs*, Dolomites Research Notes on Approximation, Padova University Press, Special Issue for the “10 years of the Padua points”, 2015, Vol. 8, pages: 51–65, ISSN: 20356803 (Print), <http://dx.doi.org/10.14658/pupj-drna-2015-Special-Issue-6>, Ref Scopus, SJR: 0.344 (2015), <http://drna.padovauniversitypress.it/2015/specialissue/6>, <https://arxiv.org/abs/1509.07837>.

[1.9] Peter Boyvalenkov, Tanya Marinova, Maya Stoyanova, Mila Sukalinska, *Distance distributions and energy of designs in Hamming spaces*, Serdica Journal of Computing, 2015, Vol. 9, Issue 2, pages: 139–150, ISSN: 1312-6555 (Print), ISSN: 1314-7897 (Online), Ref MathSciNet (MR3526249), Ref zbMATH ([Zbl 1387.94112](https://zbmath.org/journal/1387.94112)), <http://serdica-comp.math.bas.bg/index.php/serdicajcomputing/article/view/251>.

[1.8] Boyvalenkov P., Kulina H., Marinova T., Stoyanova M., *Nonexistence of binary orthogonal arrays via their distance distributions*, Problems of Information Transmission,

2015, Vol. 51, Issue 4, pages: 326–334, (Original Russian Text Published in Problemy Peredachi Informatsii, 2015, Vol. 51, Issue 4, pages: 23–31, ISSN: 0555-2923, Received: 20 December 2014, Accepted: 20 July 2015, First Online: 05 January 2016), ISSN 0032-9460 (Print), ISSN 1608-3253 (Online), <https://doi.org/10.1134/S003294601504002X>, Ref Web of Science, Impact Factor: 0.632 (2015), Web of Science Quartile: Q₃ (JCR-2015), <http://link.springer.com/article/10.1134/S003294601504002X>.

[1.7] Peter Boyvalenkov, Maya Stoyanova, *New nonexistence results for spherical designs*, Advances in Mathematics of Communications, 2013, Vol. 7, Issue 3, pages: 279–292, ISSN: 1930-5346 (Print), eISSN: 1930-5338 (Online), <http://dx.doi.org/10.3934/amc.2013.7.279>, (Received: July 2012, Revised: March 2013, Available online: July 2013), Ref Web of Science, Impact Factor: 0.651 (2013), Web of Science Quartile: Q₃ (JCR-2013), <http://www.aims sciences.org/journals/displayArticlesnew.jsp?paperID=8815>.

[1.6] Peter Boyvalenkov, Maya Stoyanova, *Improved approaches for investigation of small spherical designs*, Compt. rend. Acad. bulg. Sci., 2012, Vol. 65, Issue 6, pages: 743–750, ISSN 1310–1331 (Print), ISSN 2367–5535 (Online), Ref Web of Science, Impact Factor: 0.211 (2012), Web of Science Quartile: Q₄ (JCR-2012), <http://www.proceedings.bas.bg/>.

[1.5] Peter Boyvalenkov, Maya Stoyanova, *A new asymptotic bound of the minimum possible odd cardinality of spherical $(2k-1)$ -designs*, Discrete Mathematics, 2010, Vol. 310, Issues 15–16, pages: 2170–2175, ISSN: 0012-365X, <https://doi.org/10.1016/j.disc.2010.04.007>, (Available online: 13 May 2010), Ref Web of Science, Impact Factor: 0.536 (2010), Web of Science Quartile: Q₃ (JCR-2010), <http://www.sciencedirect.com/science/article/pii/S0012365X10001408>.

[1.4] S. Boumova, P. Boyvalenkov, M. Stoyanova, *A method for proving nonexistence of spherical designs of odd strength and odd cardinality*, Problems of Information Transmission, 2009, Vol. 45, Issue 2, pages: 110–123, (Original Russian Text Published in Problemy Peredachi Informatsii, 2009, Vol. 45, Issue 2, pages: 41–55, ISSN: 0555-2923, Received: 27 July 2008, Accepted: 27 December 2008, First Online: 18 July 2009), Print ISSN 0032-9460, Online ISSN 1608-3253, <https://doi.org/10.1134/S0032946009020033>; Ref Web of Science, Impact Factor: 0.393 (2009), Web of Science Quartile: Q₄ (JCR-2009), <http://www.springerlink.com/content/j38w25728jk60728/>.

[1.3] Silvia Boumova, Peter Boyvalenkov, Hristina Kulina, Maya Stoyanova, *Polynomial techniques for investigation of spherical designs*, Designs, Codes and Cryptography, 2009, Vol. 51, Issue 3, pages: 275–288, ISSN: 0925-1022 (Print), ISSN: 1573-7586 (Online), <https://doi.org/10.1007/s10623-008-9260-0>, (Received: 21 February 2008, Revised: 01 December 2008, Accepted: 03 December 2008, First Online: 19 December 2008), Ref Web of Science, Impact Factor: 0.825 (2009), Web of Science Quartile: Q₂ (JCR-2009), <http://www.springerlink.com/content/82558663w81hnp05/>.

[1.2] Silvia Boumova, Peter Boyvalenkov, Hristina Kulina, Maya Stoyanova, *New nonexistence results for spherical 5-designs*, Scientific Research, a Journal of South-West University, Blagoevgrad, Bulgaria, 2007, 14 pages, ISSN: 1312-7535, Ref zbMATH ([Zbl 1238.05043](https://zbmath.org/journals/SWU/SWU-2007-14-05043)), <http://press.swu.bg/volume-collection/volume-5/new-nonexistence-results-for-spherical-5-designs.aspx>.

[1.1] Peter Boyvalenkov, Maya Stoyanova, *Spherical 2-distance sets which are spherical 3-designs*, Annuaire L'Univ Sofia, Fac. Math. and Inform., 2004, Vol. 95, pages: 53–58, (received on December 14, 2001), ISSN: 1313-9215 (Print), ISSN: 2603-5529 (Online), Ref MathSciNet (MR2131506), Ref zbMATH ([Zbl 1076.05018](#)), <https://www.fmi.uni-sofia.bg/bg/spherical-2-distance-sets-which-are-spherical-3-designs>.

2. Publications in volumes of Scientific Conferences

[2.23] Maya Stoyanova, *Universal bounds for cardinalities and energy of codes in Hamming spaces*, Mathematics and Education in Mathematics, Proceedings of the Fifty First Spring Conference of the Union of Bulgarian Mathematicians, editor/s: Assoc. Prof. Evgenia Sendova, Ph.D., Tryavna, April 5-9, 2022, pages:100-112, ISSN(print):1313-3330, ISSN(online):1313-3330, http://www.math.bas.bg/smb/2022_PK/tom_2022/pdf/100-112.pdf.

[2.22] Silvia Boumova, Tedis Ramaj, Maya Stoyanova, *On Covering Radius of Orthogonal Arrays*, 2020 Algebraic and Combinatorial Coding Theory (ACCT), Date of Conference: 11-17 Oct. 2020, Conference Location: Albena, Bulgaria, Date Added to IEEE Xplore: 25 March 2021, 2021, pages:23-28, Electronic ISBN:978-1-6654-0287-3, Print on Demand(PoD) ISBN: 978-1-6654-0288-0, DOI: [10.1109/ACCT51235.2020.9383398](https://doi.org/10.1109/ACCT51235.2020.9383398), Ref Web of Science, Ref Scopus, Ref IEEE Xplore, <https://ieeexplore.ieee.org/document/9383398>.

[2.21] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *On two problems concerning universal bounds for codes*, 2019 XVI International Symposium Problems of Redundancy in Information and Control Systems (REDUNDANCY 2019), Moscow, Russia, October, 21-25, 2019, pages: 58 – 63, INSPEC Accession Number: 19380412, Electronic ISBN: 978-1-7281-1944-1, Print on Demand (PoD) ISBN: 978-1-7281-1945-8, DOI: [10.1109/REDUNDANCY48165.2019.9003329](https://doi.org/10.1109/REDUNDANCY48165.2019.9003329), Ref Web of Science, Ref Scopus, Ref IEEE Xplore, [On Two Problems Concerning Universal Bounds for Codes | IEEE Conference Publication | IEEE Xplore](#).

[2.20] Peter Boyvalenkov, Peter Dragnev, Douglas Hardin, Edward Saff, Maya Stoyanova, *Linear Programming Bounds for Cardinality and Energy of Codes of Given Min and Max Distances*, ISIT 2019: The 2019 IEEE International Symposium on Information Theory, Paris, France, July 7-12, 2019, pages: 1747-1751, ISSN: 21578095, INSPEC Accession Number: 19013211, Electronic ISBN:978-1-5386-9291-2, USB ISBN: 978-1-5386-9290-5, Print on Demand(PoD) ISBN: 978-1-5386-9292-9, DOI: [10.1109/ISIT.2019.8849388](https://doi.org/10.1109/ISIT.2019.8849388), Ref Scopus, SJR: 0.91 (2019), Ref IEEE Xplore, <https://ieeexplore.ieee.org/document/8849388>
<https://2019.ieee-isit.org/Papers/AcceptedPapers.asp>.

[2.19] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *Upper bounds for energies of codes of given cardinality and separation*, The Eleventh International Workshop on Coding and Cryptography (WCC 2019), Saint-Jacut-de-la-Mer, France, from March 31st to April 5th 2019, <https://www.lebesgue.fr/content/sem2019-WCC-Accepted%20papers>.

[2.18] Silvia Boumova, Tanya Marinova, Maya Stoyanova, *On ternary orthogonal arrays*, Proc. Sixteenth International Workshop on Algebraic and Combinatorial Coding Theory,

ACCT–16, Svetlogorsk (Kaliningrad region), Russia, September 2-9, 2018, pages:102-105, <http://acct2018.skoltech.ru/>.

[2.17] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *Bounding energies and cardinalities of spherical codes with inner products in prescribed interval*, extended abstract, The Tenth International Workshop on Coding and Cryptography (WCC 2017), St. Petersburg, Russia, September 18-22, 2017, <http://wcc2017.suai.ru/papers.html>.

[2.16] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *Lower energy bounds for antipodal spherical codes and for codes in infinite projective spaces*, 2016 15th International Symposium on Problems of Redundancy in Information and Control Systems (REDUNDANCY 2016), September 26-29, 2016, St. Petersburg, Russia, pages: 28–32, 978-1-5090-4231-9/16/2016 IEEE, DOI: [10.1109/RED.2016.7779322](https://doi.org/10.1109/RED.2016.7779322), Electronic ISBN: 978-1-5090-4231-9, USB ISBN: 978-1-5090-4230-2, Print on Demand (PoD) ISBN: 978-1-5090-4232-6, INSPEC Accession Number: 16525200, Ref IEEE Xplore, <http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7779322>.

[2.15] Peter Boyvalenkov, Tanya Marinova, Maya Stoyanova, *New nonexistence results for binary orthogonal arrays*, Proc. Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory, ACCT–15, June 18-24, 2016, Albena, Bulgaria, 2016, pages: 90-95, https://www.researchgate.net/publication/303693339_New_nonexistence_results_for_binary_orthogonal_arrays.

[1.15a] Tanya Marinova, Maya Stoyanova, *Nonexistence of (9, 112, 4) and (10, 224, 5) binary orthogonal arrays*, Proc. Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory, ACCT–15, June 18-24, 2016, Albena, Bulgaria, 2016, pages: 221-226, https://www.researchgate.net/publication/303702618_Nonexistence_of_9_112_4_and_10_224_5_binary_orthogonal_arrays.

[1.14a] P. Boyvalenkov, P. Dragnev, D. Hardin, E. Saff, M. Stoyanova, *Universal Lower Bounds on Energy and LP-Extremal Polynomials for (4,24)-Codes*, Proc. Fifteenth International Workshop on Algebraic and Combinatorial Coding Theory, ACCT–15, June 18-24, 2016, Albena, Bulgaria, 2016, pages: 84-89, https://www.researchgate.net/publication/303693528_Universal_Lower_Bounds_on_Energy_and_LP-Extremal_Polynomials_for_424-Codes.

[2.14] Peter G. Boyvalenkov, Peter D. Dragnev, Douglas P. Hardin, Edward B. Saff, Maya M. Stoyanova, *Energy bounds for codes and designs in Hamming spaces*, Workshop on Coding and Cryptography (WCC 2015), Paris, France, April 13-17, 2015, <http://wcc2015.inria.fr/papers.html>.

[2.13] Boyvalenkov P., Dragnev P., Hardin D., Saff E., Stoyanova M., *On the Riesz energy of spherical designs*, Proc. Fourteenth International Workshop on Algebraic and Combinatorial Coding Theory, ACCT–14, Svetlogorsk (Kaliningrad region), Russia, September 7–13, 2014, pages: 109–114, ISBN: 978-5-901158-26-5, <http://www.moi.math.bas.bg/acct2014/a18.pdf>.

[2.12] Peter Boyvalenkov, Hristina Kulina Maya Stoyanova, *On (4,9,96) binary orthogonal arrays*, Proc. Intern. Workshop OC'13, Albena, Bulgaria, September 6-12, 2013, pages: 71-76, ISSN: 1313-1117,

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<http://www.moi.math.bas.bg/acct2012/acct2012.html>.

[2.9] Peter Boyvalenkov, Maya Stoyanova, *New asymptotic bounds for some spherical (2k-1)-designs*, Proc. Intern. Workshop OC'09, Varna, Bulgaria, June 16-22, 2009, pages: 49-54, ISSN: 1313-1117, <http://www.moi.math.bas.bg/oc2009/a9.pdf>.

[2.8] S. Boumova, P. Boyvalenkov, M. Stoyanova, *Nonexistence results for spherical 7-designs*, Proc. Intern. Workshop ACCT-11, Pamporovo, Bulgaria, June 16-22, 2008, pages: 35-39, ISSN: 1313-423X, <http://www.moi.math.bas.bg/acct2008/b6.pdf>.

[2.7] S. Boumova, P. Boyvalenkov, H. Kulina, M. Stoyanova, *New nonexistence results for spherical 5-designs*, Proc. Intern. Workshop OC'07, White Lagoon, Bulgaria, June 16-22, 2007, pages: 30-35, ISSN: 1313-1117,

<https://www.researchgate.net/publication/270274354> [New nonexistence results for spherical 5-designs](#).

[2.6] Peter Boyvalenkov, Maya Stoyanova, *Bounds on the cardinality of spherical codes with inner products in given range*, Proc. Intern. Workshop ACCT-10, Zvenigorod, Russia, September 3-9, 2006, pages: 48-51,

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[2.5] Peter Boyvalenkov, Maya Stoyanova, *Upper bounds on the covering radius of spherical designs*, Proc. Intern. Workshop OC'05, Pamporovo, Bulgaria, June 17-23, 2005, pages: 53-58, ISBN: 954-8986-18-3,

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[2.4] Peter Boyvalenkov, Maya Stoyanova, *Some methods for investigation of spherical designs*, Proc. Intern. Workshop ACCT-9, Kranevo, Bulgaria, June 19-25, 2004, pages: 86-89, ISBN: 954-8986-14-0,

<https://www.researchgate.net/publication/259390024> [Some methods for investigations of spherical designs](#).

[2.3] Peter Boyvalenkov, Maya Stoyanova, *On spherical (n, M, l, τ) -sets*, Proc. Intern. Workshop ACCT-8, Tsarskoe Selo, Russia, September 8-14, 2002, pages: 69-72, <https://www.researchgate.net/publication/259389954> *On spherical nMIt-sets*.

[2.2] Грозьо Станилов, Мая Стоянова, *Обратна теорема на трисекторната теорема на Морлей*, (Grozio Stanilov, Maya Stoyanova, *A converse theorem of Morley's trisector theorem*), Math. Educ. Math., Proc. of Thirtieth Spring Conference of UBM, Borovets, Bulgaria, April 8-11, 2001, pages: 399-404, ISBN: 954-8880-08-3, ISSN: 1313-3330, <http://www.math.bas.bg/smb/PK/30-2001.pdf>.

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IF: 2.417 (2020), [1.24] MathComp	Q ₁ (48/265 Math.App)
IF: 2.501 (2020), [1.23] IEEE	Q ₂ (Q ₂ 134/273 IngEE, Q ₃ CSc,InfSys)
IF: 0.378 (2020), [1.22] CrAbS	Q ₄ (71/73 Multidisc),
IF: 1.199 (2020), [1.21] ResMath	Q ₂ (83/325 Math),
IF: 1.492 (2020), [1.20] DCC	Q ₂ (Q ₂ 116/265 MathApp, Q ₃ 61/110 CST&M)
IF: 2.056 (2019), [1.18] APM	Q ₁ (Q ₁ 22/325 Math, Q ₁ 40/261 MathApp)
IF: 1.524 (2019), [1.17] DCC	Q ₂ (Q ₂ 75/261 MathApp, Q ₂ 51/108 CST&M)
IF: 0.557 (2018), [1.16] PIT	Q ₄ (Q ₄ 97/104 CST&M, Q ₄ 227/254 MathApp)
IF: 0.932 (2017), [1.13] DAM	Q ₃ (Q ₃ 136/252 MathApp)
IF: 1.114 (2017), [1.12] DCC	Q ₂ (Q ₂ 103/252 MathApp, Q ₃ 53/103 CST&M)
IF: 0.964 (2016), [1.11] CA	Q ₁ (Q ₁ 67/311 Math)
IF: 0.632 (2015), [1.8] PIT	Q ₃ (Q ₃ 177/254 MathApp, Q ₄ 80/105 CST&M)
IF: 0.651 (2013), [1.7] AMC	Q ₃ (Q ₃ 60/102 CST&M, Q ₃ 154/251 MathApp)
IF: 0.211 (2012), [1.6] CrAbS	Q ₄ (Q ₄ 46/56 Multidisc)
IF: 0.536 (2010), [1.5] DM	Q ₃ (Q ₃ 163/279 Math)
IF: 0.393 (2009), [1.4] PIT	Q ₄ (Q ₄ 83/92 CST&M, Q ₄ 183/204 MathApp)
IF: 0.825 (2009), [1.3] DCC	Q ₂ (Q ₂ 102/204 MathApp, Q ₃ 60/92 CST&M)

SJR:<https://www.scimagojr.com/>**Quartile (Scopus):**

SJR: 1.95 (2020), [1.24] MathComp	Q ₁ (AlgNTh, AppMath, CompMath, 2020)
SJR: 1.218 (2020), [1.23] IEEE TIT	Q ₁ (Q ₁ CScApp, Q ₁ InfSys, 2020)
SJR: 0.244 (2020), [1.22] CrAbS	Q ₂ (Q ₂ Multidisc, 2020)
SJR: 0.199 (2020), [1.21] ResMath	Q ₂ (Q ₂ Math, Q ₂ AppMath, 2020)
SJR: 0.898 (2020), [1.20] DCC	Q ₁ (Q ₁ DMathComb, Q ₂ AppMath, Q ₁ CScApp)
SJR: 0.91 (2019), [2.22] ISIT2019	
SJR: 0.593 (2019), [1.18] APM	Q ₂ (Q ₂ AlgNth, Q ₂ Analysis, Q ₂ MathPhysics)
SJR: 1.174 (2019), [1.17] DCC	Q ₁ (Q ₁ DMathComb, Q ₂ AppMath, Q ₁ CScApp)
SJR: 0.282 (2018), [1.16] PIT	Q ₃ (Q ₃ CNetwC, Q ₃ CScApp, Q ₃ InfSys)
SJR: 0.262 (2017), [1.15] ENDM	Q ₃ (Q ₃ DMath&Comb, Q ₄ AppMath),
SJR: 0.262 (2017), [1.14] ENDM	Q ₃ (Q ₃ DMath&Comb, Q ₄ AppMath),
SJR: 0.785 (2017), [1.13] DAM	Q ₂ (Q ₂ DMath&Comb, Q ₂ AppMath)
SJR: 0.549 (2017), [1.12] DCC	Q ₂ (Q ₂ AppMath, Q ₂ CScApp)
SJR: 1.094 (2016), [1.11] CA	Q ₁ (Q ₁ Math, Q ₁ CompMath, Q ₂ Analysis)
SJR: 0.344 (2015), [1.10] DRNA	Q ₃ (Q ₃ Math, Q ₃ AppMath)
SJR: 0.403 (2015), [1.8] PIT	Q ₂ (Q ₂ CNetwC, Q ₂ InfSys, Q ₃ CscApp)
SJR: 0.675 (2013), [1.7] AMC	Q ₁ (Q ₁ CNetwC, Q ₂ AlgNTh, Q ₂ AppMath)
SJR: 0.207 (2012), [1.6] CrAbS	Q ₂ (Q ₂ Multidisc)
SJR: 0.845 (2010), [1.5] DM	Q ₂ (Q ₂ DMath&Comb, Q ₂ ThCSc)
SJR: 0.347 (2009), [1.4] PIT	Q ₂ (Q ₂ CNetwC, Q ₃ CScApp, Q ₃ InfSys)
SJR: 0.774 (2009), [1.3] DCC	Q ₂ (Q ₂ CScApp, Q ₃ AppMath,)

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MR3977668, [1.18] APM, 2019
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[Zbl 07328923](#), [1.24], MathComp, 2021
[Zbl 07374349](#), [1.23], IEEE TIT, 2021
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[Zbl 1454.94139](#), [1.18] APM, 2019
[Zbl 1448.94301](#), [1.17] DCC, 2019
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