

**Списък на публикациите на Николай Николов
за конкурса за професор**

Осем статии със * не са включени в дисертацията за д.м.н.

IF = Impact factor (in pure mathematics)

24 от статиите са публикувани в чуждестранни списания с IF, а останалите 4 – в 2 списания, които вече имат IF. Total IF: 17,162 (тези със *: 5,739).

1. The completeness of the Bergman distance of planar domains has a local character, *Complex Variables* 48 (2003), No 8, 705-709. MR 2004f:32012, Zbl.1038.32013.
- 2.* Some remarks on the Green function and the Azukawa pseudometric (with W. Zwonek), *Monatsh. Math.* 142 (2004), No 4, 341-350. IF 0.348. MR 2005f:32022, Zbl.1070.32010.
3. On the product property for the Lempert function (with W. Zwonek), *Complex Variables* 50 (2005), No 12, 939-952. MR 2006g:32017, Zbl.1085.32006.
4. Local vs. global hyperconvexity, tautness or k-completeness for unbounded open sets in \mathbb{C}^n (with P. Pflug), *Ann. Scuola Norm. Sup. Pisa Cl. Sci. (5), Vol. IV* (2005), No 4, 601-618. IF 0.571. MR 2006j:32002, Zbl.1170.32302.
5. The multipole Lempert function is monotone under inclusion of pole sets (with P. Pflug), *Mich. Math. J.* 54 (2006), No 1, 111-116. IF 0.440. MR 2007b:32017, Zbl.1135.32034.
6. The Bergman kernel of the symmetrized polydisc in higher dimensions has zeros (with W. Zwonek), *Arch. Math.* 87 (2006), No 5, 412-416. IF 0.341. MR 2007f:32005, Zbl.1106.32002.
7. The symmetrized polydisc cannot be exhausted by domains biholomorphic to convex domains, *Ann. Polon. Math.* 88 (2006), No 1, 279-283. MR 2007f:32024, Zbl.1111.32020.
8. On the definition of the Kobayashi-Buseman pseudometric (with P. Pflug), *Internat. J. Math.* 17 (2006), No 10, 1145-1149. IF 0.531. MR 2007i:32011, Zbl.1125.32005.
9. Simultaneous approximation and interpolation on Arakelian sets (with P. Pflug), *Can. Math. Bull.*, 50 (2007), No 1, 123-125 IF 0.336. MR 2008f:30085, Zbl.1142.32014.
10. The Lempert function of the symmetrized polydisc in higher dimensions is not a distance (with P. Pflug and W. Zwonek), *Proc. Amer. Math. Soc.* 135 (2007), No 9, 2921-2928. IF 0.520. MR 2008e:32017, Zbl.1123.32007.

- 11.* Invariant metrics and distances on generalized Neil parabolas (with P. Pflug), *Mich. Math. J.* 55 (2007), No 2, 255-268. IF 0.494. MR 2008i:32010, Zbl.1140.32008.
12. Estimates of the Carathéodory metric on the symmetrized polydisc (with P. Pflug, P. J. Thomas and W. Zwonek), *J. Math. Anal. Appl.* 341 (2008), No 1, 140-148. IF 1.046. MR 2009a:32015, Zbl.1135.32014.
13. An example of a bounded \mathbb{C} -convex domain which is not biholomorphic to a convex domain (with P. Pflug and W. Zwonek), *Math. Scand.* 102 (2008), No 1, 149-155. IF 0.412. MR 2009b:32014, Zbl.1155.32009.
14. On the derivatives of the Lempert functions (with P. Pflug), *Ann. Mat. Pura Appl.* 187 (2008), No 3, 547-553. IF 0.818. MR 2008m:32022, Zbl.1150.32004.
15. Discontinuity of the Lempert function and the Kobayashi–Royden metric of the spectral ball (with P. J. Thomas and W. Zwonek), *Integr. Equ. Oper. Theory* 61 (2008), No 3, 401-412. IF 0.460. MR 2009c:32023, Zbl.1154.32003.
16. On the zero set of the Kobayashi–Royden pseudometric of the spectral ball (with P. J. Thomas), *Ann. Polon. Math.* 93 (2008), No 1, 53-68. MR 2008k:32028, Zbl.1144.32003.
17. Remarks on Lempert functions on balanced domains (with P. Pflug), *Monatsh. Math.* 156 (2009), No 2, 159-165. IF 0.764. MR 2010b:32013, Zbl.1194.32005.
18. On a local characterization of pseudoconvex domains (with P. Pflug, P. J. Thomas and W. Zwonek), *Indiana Univ. Math. J.* 58 (2009), No 6, 2661-2671. IF 0.913. MR 2011f:32068, Zbl.1202.32010.
- 19.* Lipschitzness of the Lempert and Green functions (with P. Pflug and P. J. Thomas), *Proc. Amer. Math. Soc.* 137 (2009), No 6, 2027-2036. IF 0.640. MR 2010c:32016, Zbl.1171.32007.
- 20.* Upper bound for the Lempert function of smooth domains (with P. Pflug and P. J. Thomas), *Math. Z.* 266 (2010), No 2, 425-430. IF 0.819. MR 2011f:32026, Zbl.1207.32010.
- 21.* One-radius results for supermedian functions on \mathbb{R}^d , $d \leq 2$ (with W. Hansen), *Math. Ann.* 348 (2010), No 3, 565-575. IF 1.092. MR 2011k:31001, Zbl.1204.31001.
22. Separate continuity of the Lempert function of the spectral ball (with P. J. Thomas), *J. Math. Anal. Appl.* 367 (2010), No 2, 710-712. IF 1.174. MR 2011g:32017, Zbl.1202.32011.
23. Estimates for invariant metrics on \mathbb{C} -convex domains (with P. Pflug and W. Zwonek), *Trans. Amer. Math. Soc.* 363 (2011), No 12, 6245-6256. IF 1.1 (2010).

24. Kobayashi-Royden pseudometric vs. Lempert function (with P. Pflug), *Ann. Mat. Pura Appl.* DOI: 10.1007/s10231-010-0164-z. IF 0.896 (2010).

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26.* Estimates for invariant metrics near non-semipositive boundary points (with N. Q. Dieu and P. J. Thomas), *J. Geom. Anal.* DOI: 10.1007/s12220-011-9255-3. IF 0.978 (2010).

27.* Two-dimensional slices of non-pseudoconvex open sets (with P. Pflug), *Math. Z.* DOI: 10.1007/s00209-011-0938-z. IF 0.819 (2010).

28.* On the sum of powered distances to three points (with R. Rafailov), *Pacific J. Math.* (to appear). IF 0.549 (2010);

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