

List of publications by I. Chyzhykov

1. Igor Chyzhykov, Jianren Long, On non-separated zero sequences of solutions of a linear differential equation, Proc. Edinburg Math. Soc. (accepted)
2. Igor Chyzhykov, Yulia Kosaniak, Estimates of conjugate harmonic functions with given set of singularities and application, Analysis Mathematica, (accepted)
3. I. E. Chyzhykov, A. Z. Mokhon'ko. Logarithmic derivative estimates of meromorphic functions of finite order in the half-plane, Mat. Stud. **54** (2020), no.2 172–186.
4. I. Chyzhykov, Asymptotic behaviour of p th means of analytic and subharmonic functions in the unit disc and angular distribution of zeros, Israel Jour. of Mathematics. **236** (2020), no. 2, 931–957.
5. I. Chyzhykov, G. Beregova, On asymptotic behavior of fractional Cauchy transform, Analysis and Mathematical Physics, **9** (2019), 809–820.
6. I. E. Chyzhykov, O. A. Kutnyak. Growth of p th means of the Poisson-Stieltjes integrals in polydisc, Mat. Stud. **52** (2019), no.1, 48–54.
7. Chyzhykov, I., Voitovych, M.: On decrease of nonpositive \mathcal{M} -subharmonic functions in the unit ball. Visnyk of the Lviv Univ. Series Mech. Math. **83** (2017), 90–99.
8. I. Chyzhykov. Pfluger-type theorem for functions of refined regular growth, Mat. Stud. **47** (2017), 169–178.
9. I. Chyzhykov and Yu. Kosaniak, *Asymptotic behavior of fractional derivatives of bounded analytic functions*, J. Math. Phys. Anal. Geom. **13** (2017), no.2, 107–118.
10. I. Chyzhykov, M. Voitovych, *Growth description of p th means of the Green potential in the unit ball*, Complex Variables and Elliptic Equations. **52**, (2017) No. 7, 899–913.
11. I. E. Chyzhykov, M. A. Voitovych. *On asymptotic behavior of the p th means of the green potential for $0 < p \leq 1$* , Mat. Stud. **46** (2016), no. 2, 159–170.
12. I. Chyzhykov, N. Semochko, *Fast growing entire solutions of linear differential equations*, Math. Bull. Shevchenko Sci. Soc. **13** (2016) 68–83.
13. Walter Bergweiler, Igor Chyzhykov, *Lebesgue measure of escaping sets of entire functions of completely regular growth*, J. London Math. Soc. (2) **94** (2016), 639–661.
14. I. Chyzhykov, N. Semochko, *Growth of solutions of fractional differential equations*, Dopov. Nats. Akad. Nauk Ukr. (2016), no.8, 12–18 (Ukrainian).
15. Igor Chyzhykov, Nadiya Semochko, *Generalization of the Wiman-Valiron method for fractional derivatives*, Inter. Journal of Applied Mathematics. **29** (2016), No. 1, 19–30.
16. I. Chyzhykov, M. Kravets, *On the minimum modulus of analytic functions of moderate growth in the unit disc*, Comp. Methods and Function Theory. **16** (2016), No. 1, 53–64.
17. I. Chyzhykov, M. Voitovych, *On the growth of the Cauchy-Szegő transform in the unit ball*, J. Math. Phys. Anal. Geom. **11** (2015), no.3, 236–244.

18. I. Chyzhykov, M. Voitovych, *On the growth of spirallike functions*, Analele Univ. Oradea, Fasc. Matematica, **XXII** (2015), Issue 22, No.2, 95–101.
19. Igor Chyzhykov, Iryna Sheparovych, *Interpolation of analytic functions of moderate growth in the unit disc and zeros of solutions of a linear differential equation*, J. Math. Anal. Appl. **414** (2014) 319-333.
20. Bordulyak M.T., Skaskiv O.B., Sumyk O.M., Chyzhykov I.E. Theorems and problems in probability. Lviv, 2013. – 175 pp. (in Ukrainian)
21. Igor Chyzhykov, Yuriy Lyubarskii, *Uniform approximation of subharmonic functions in the unit disc*, Math. Reports Rom. Acad.Sci. **15** (2013) no.4, 359–371.
22. I. Chyzhykov, N.Semochko, *To estimates of a fractional counterpart of the logarithmic derivative of a meromorphic function*, Mat. Stud. **39** (2013), no.1, 107–112.
23. I.E.Chyzhykov, *Zero distribution and factorization of analytic functions of slow growth in the unit disc*, Proc. Amer. Math. Soc. **141** (2013), 1297–1311.
24. O.B.Skaskiv, A.I.Kuryliak, I.E.Chyzhykov, *Baire categories and Wiman's inequality for analytic functions*, Bulliten de la Société des Sciences et des Lettres de Łódź, Recherches sur les déformations. **LXII** (2012), no. 3, 17–33.
25. Igor Chyzhykov, Severyn Skaskiv, *Growth, zero distribution and factorization of analytic functions of moderate growth in the unit disc*, in the Blaschke Products and their Applications. J.Mashreghi, E.Fricain eds., Fields Institute Communications, V.65. (2013), 159–173.
26. I.E.Chyzhykov, O.A.Zolota, *On sharpness of growth estimates of Cauchy-Stieltjes integrals in the unit disc and polydisc*, Mat. Stud. **37** (2012), no.2, 155-160.
27. V.V.Kovalyk, I.E, Chyzhykov, *Growth of Poisson-Stieltjes integral in the half-plane*, Mat. Stud. **35** (2011), no.2, 155-164. (in Ukrainian)
28. I.E.Chyzhykov, O.A.Zolota, *Growth of the Poisson-Stieltjes integral in the polydisc*, J.Math. Phys. Analysis, Geometry, **7** (2011), no.2, 141-157.
29. I.E.Chyzhykov, O.A.Zolota, *Sharp estimates of the growth of the Poisson-Stieltjes integral in the polydisc*, Mat. Stud. **34** (2010), no.2, 193-196. Corrections: Mat. Stud. **37** (2012), no.2, 223-224.
30. I. Chyzhykov, J. Heittokangas, J. Rättyä, *Sharp logarithmic derivative estimates with applications to ODE's in the unit disc*, J. Austr. Math. Soc. **88** (2010), 145-167.
31. I. Chyzhykov, J. Heittokangas, J. Rättyä, *On the finiteness of φ -order of solutions of linear differential equations in the unit disc*, J. d'Analyse Math. **109** (2010), V.1, 163-196.
32. Chyzhykov I. *Argument of bounded analytic functions and Frostman's type conditions*, Illinois Math. J. **53** (2009) No.2, 515–531.
33. A.A.Gol'dberg, I.E. Chyzhykov, *Introduction to function theory of several complex variables*, Lviv Nat.Univ., Lviv, 2009, 82 pp. (Ukrainian)
34. Chyzhykov I.E., Kolyasa L.I. *Logarithmic derivative estimates for subharmonic functions* Mat. Stud. **30**, (2008) no.1, 22–30.

35. Chyzhykov I.E. *Concentration of zeros and poles, h -measures, and uniform logarithmic derivative estimates of meromorphic functions*, Mat. Stud. **29**, (2008) no.2, 151–164.
36. Chyzhykov I. *Approximation of subharmonic functions in the unit disk*, J. Mathem. physics, analysis, geometry. **4**, (2008) No 2, 211–236.
37. Chyzhykov I.E. *Growth of analytic functions in the unit disc and complete measure in the sense of Grishin*, Mat. Stud. **29**, (2008) no.1, 151–164.
38. Chyzhykov I. *On minimum modulus of bounded analytic functions* Math. Visnyk Nauk. Tovar. Shevchenko. **4**, (2007), 318–328.
39. Chyzhykov I.E. *Sharp logarithmic derivative estimates for meromorphic functions*, Mat.Stud. **27**, (2007), No.2, 120–138.
40. Chyzhykov I. E. *On the complete description of the class of analytic functions with given orders*, Ukrainian Mat. Zh. **59** (2007), No 7, 979–995 (Ukrainian); Engl. translation in Ukr. Math. J. **59** (2007), No. 7, 1088–1109.
41. Chyzhykov I. E. *A generalization of a Hardy-Littlewood theorem*, Math. methods and phys.-mech. fields. **49**, (2006) No.2, 74–79. (Ukrainian)
42. Chyzhykov I. *Growth and representation of analytic and harmonic functions in the unit disk*, Ukr. Math. Bull. **3**, (2006) no.1, 31–44.
43. Sumyk O.M., Chyzhykov I.E. *Meromorphic functions and linear differential equations*, Lectures, Lviv Nat.Univ., Lviv, 2005. 98 pp. (Ukrainian)
44. Skaskiv O.B., Chyzhykov I.E. *Practice on probability*, Lviv Nat.Univ., Lviv, 2004. 114 pp. (Ukrainian)
45. Chyzhykov I.E., Skaskiv O.B. *On an asymptotic equality between the minimum and the maximum of δ -subharmonic functions of zero genus* Comput. Meth. Funct. Theory. **4** (2004), No.2, 447–460.
46. Chyzhykov I.E. *Growth of harmonic functions in the unit disc and an application*, Oberwolfach Reports, EMS. **1**, (2004) No.1, 391–392.
47. Chyzhykov I. E. *Approximation of subharmonic functions*, Algebra i analiz. **16**, (2004) No. 3, 211–237. (Russian); Engl.transl. St.-Petersburg Math. J. **16** (2005), 591–607.
48. Chyzhykov I. E. *An estimate of a size of the set where the modulus of an analytic function is greater than 1*, Mat. Stud. **21**, (2004) No.1, 35–46.
49. Chyzhykov I. E., Sheremeta M.M. *On boundedness of l -index for entire functions of zero genus*, Reports of NAS of Ukraine. (2003) No 7, 33–39. (Ukrainian)
50. Bordulyak M.T., Chyzhykov I. E., Sheremeta M. M. *Preservation of l -index boundedness under zeros shifts*, Mat. Stud. **19**, (2003) No.1, 21–30.
51. Chyzhykov I., Gundersen G.G., Heittokangas J. *Linear differential equations and logarithmic derivative estimates*, Proc. London Math. Soc. (3). **86** (2003), 735–754.
52. Chyzhykov I.E. *Approximation of subharmonic functions of slow growth*, Math. phys., analysis, geometry. **9**, (2002) No.3, 509–520.
53. Chyzhykov I. E. *On minimum modulus of an entire function of zero order*, Mat. Stud. **17**, (2002) No.1, 41–46.

54. Chyzhykov I. E. *An addition to $\cos \pi\rho$ -theorem for subharmonic and entire functions of zero lower order*, Proc. Amer. Math. Soc. **130** (2002), No.2, 517–528.
55. Chyzhykov I.E., Sheremeta M.M. *Boundedness of l -index for entire functions of zero genus*, Mat. Stud. **16** (2001), No.2, 124–130.
56. Chyzhykov I. E. *Closeness of a -points property and structure of Riemann's surfaces from F_q class*, Mat. phys., analysis, geom. **8**, (2001) No.4, 140–154.(Russian)
57. Skaskiv O.B., Chyzhykov I.E., *On the minimum modulus of an entire function of zero genus*, Visnyk of Lviv Univ. (2001) No.59, 61–65. (Ukrainian)
58. Chyzhykov I. E. *On sets of positive deviations of analytic functions* // Visnyk of Lviv Univ. (2000), no. 58, 48–53. (Ukrainian)
59. Skaskiv O. B., Chyzhykov I. E. *The Nevanlinna characteristics and maximum modulus of gap power series*, Mat. Stud. **13**, (2000) No.2, 125–133.
60. Chyzhykov I. E. *A new application of Fuchs-Hayman's function*, Mat. Stud. **9**, (1998) No.1, 7–15.
61. Chyzhykov I. E. *On the sets of positive deviations of meromorphic in the unit disc functions*, Mathematical methods and physicomechanical fields. **40**, (1997) No.4, 48–53. (Ukrainian)
62. Chyzhykov I. E. *Deficiencies of meromorphic in the half-plane functions*, Visnyk Lvivs'kogo Univ. (1997), no. 48, 12–16. (Ukrainian)
63. Chyzhykov I. E. *To the inverse problem of the value distribution theory for analytic in the half-plane functions*, Integral transformations and their applications for boundary problems: Kyiv. Inst. Math. NAS Ukraine. **15** (1997), 270–281. (Ukrainian)
64. Chyzhykov I. E. *To the narrow inverse problem of the value distribution theory in the half-plane*, Mathematical modelling and complex analysis. Vilnius: Technika, 1996, P.63–64. (Russian)