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A. A. Goldberg – 90

The famous Soviet and Ukrainian mathematician Anatolii Assirovich Goldberg born 2 April 1930 in Kyiv, Ukraine and died 11 October 2008 in Netanya, Israel.



Goldberg kept up a remarkable publication record with over 150 items listed in [2] with around twenty further items published after the article [2] appeared. Some of these publications [9–20], book [21] and textbooks [22, 23]. List of A.A. Goldberg's students and students of his students contains 18 students and 92 descendants (see, [2, 5] and also [6]).

He was also honored by having mathematical terms named after him. Several things are named after him: Goldberg's examples [7], Goldberg's constants [8], Goldberg's conjecture and problem (for example famous GOP (Goldberg-Ostrovskii-Petrenko)-problem about analytic solutions of differential equations on a complex plane), Goldberg type and Goldberg order (growth characteristics for entire functions of several

complex variables) and much more.

A. A. Goldberg was a member of many editorial boards. He was the first Editor-in-Chief of the journal "Matematychni Studii".

He received several honors for his outstanding contributions. In 1992 A. A. Goldberg, I. V. Ostrovskii and B. Ya. Levin, were joint recipients of the State Prize of Ukraine. On May 23-25, Ivan Franko National University of Lviv and Lviv Mathematical Society organized an international conference "Entire and meromorphic functions" dedicated to the 70th anniversary of A.A. Goldberg. For this event editorial board of the journal *Mat.Stud.* dedicated a separate issue (**13**, no.2) of the journal. Some conference materials were also published in *Visn. Lviv. Un-ty, ser. mekh.-mat.*, **58** (2000). He was also honored following his death with a "Conference on complex analysis dedicated to the memory of Anatolii Asirovich Goldberg" being held in Lviv, Ukraine, from 31 May to 5 June 2010. It was organized by the Ivan Franko National University of Lviv and the Lviv Mathematical Society (see "International conference on complex analysis dedicated to the memory of A. A. Gol'dberg" http://matstud.org.ua/texts/2010/34_2/220-221.pdf).

There was planned the international conference "Complex analysis and related topics 2020" dedicated to the 90-th anniversary of Anatolii Asirovich Goldberg (1930-2008) in June, 2020 (web-site: <http://www.analysis20.mathlviv.org.ua/>). In view of the situation with corona-virus the Organizing Committee postponed the conference on the second part of June 2021. All papers in this journal issue are devoted to the 90-th anniversary of Anatolii Asirovich Goldberg.

REFERENCES

1. A. E. Eremenko, S. Ya. Khavinson, A. A. Kondratyuk, B. Ya. Levin, S. N. Mergelyan, I. V. Ostrovskii, M. N. Sheremeta, L. I. Volkovyskii, *Anatolii Asirovich Goldberg (on the occasion of his sixtieth birthday)*, Russian Math. Surveys **45** (1990) (5), 247-250. doi: 10.1070/RM1990v045n05ABEH002675
2. A. E. Eremenko, I. V. Ostrovskii, M. L. Sodin, *Anatolii Asirovich Goldberg*, Complex Variables Theory Appl. **37** (1998) (1-4), 1-51. doi: 10.1080/17476939808815121
3. J. J. O'Connor, E. F. Robertson, *Anatolii Asirovich Goldberg*, MacTutor History of Mathematics Archive. <https://mathshistory.st-andrews.ac.uk/Biographies/Goldberg/>
4. M. Zabolotskii, O. Skaskiv, M. Sheremeta, *Anatolii Asirovich Goldberg – Scientist and Teacher*, Visn. Lviv. Un-ty, mekh.-mat., **58** (2000), 5–7. (in Ukrainian)
5. A. A. Kondratyuk, M. M. Sheremeta *Anatolii Asirovich Gol'dberg*, Mat.Stud., **13** (2000) (2), 119-124. http://matstud.org.ua/texts/2000/13.2/13.2_119-124.pdf
6. <https://mathgenealogy.org/id.php?id=58900>
7. W. K. Hayman, Meromorphic functions. Oxford: Clarendon Press, 1964.
8. W. Bergweiler, A. Eremenko, *Goldberg's constants*, arXiv:1111.2296v1 [math.CV] 9 Nov 2011. <https://arxiv.org/pdf/1111.2296.pdf> doi: 10.1007/s11854-013-0012-3
9. Goldberg A.A., Levin B.Y., Ostrovskii I.V. (1994) Entire and subharmonic functions. In: Havin V.P., Nikolski N.K. (eds) Linear and Complex Analysis Problem Book 3. Lecture Notes in Mathematics, **1574**. Springer, Berlin, Heidelberg. doi: 10.1007/BFb0101066
10. Gol'dberg A.A., Levin B.Y., Ostrovskii I.V. (1997) Entire and Meromorphic Functions. In: Gonchar A.A., Havin V.P., Nikolski N.K. (eds) Complex Analysis I. Enc. Math. Scienc., **85**. Springer, Berlin. doi: 10.1007/978-3-662-03396-8_1
11. M. O. Girnyk, A. A. Gol'dberg, *Approximation of subharmonic function by logarithms of moduli of entire functions in integral metrics*, Dopovidi NAN Ukrainy, (2000), no.2, 37–39. (in Ukrainian)
12. M. O. Girnyk, A. A. Gol'dberg, *Approximation of subharmonic function by logarithms of moduli of entire functions in integral metrics*, Entire functions in modern analysis. Boris Levin memorial conference. Isr. Math. Conf. Proc. **15**, 117-135 (2001).
13. A. A. Gol'dberg *A supplement to a theorem of J. Clunie*, Mat. Fiz. Anal. Geom. **8** (2001), no. 2, 143–147. (in Russian) <https://jimage.ilt.kharkov.ua/jmag/pdf/8/m08-0143r.pdf>
14. A. A. Gol'dberg, *Estimates of conformal maps of curvilinear strips*, Mat. Fiz. Anal. Geom. **9** (2002), no. 2, 249–252. <https://jimage.ilt.kharkov.ua/jmag/pdf/9/m09-0249e.pdf>
15. A. A. Gol'dberg, I. V. Ostrovskii, *On the growth of a subharmonic function with Riesz' measure on a ray*, Mat. Fiz. Anal. Geom. **11** (2004), no. 1, 107–113. <https://jimage.ilt.kharkov.ua/jmag/pdf/11/m11-0107e.pdf>
16. V. Azarin, A. Gol'dberg, *A sharp inequality for the order of the minimal positive harmonic function in T-homogeneous domain*, Mat. Fiz. Anal. Geom. **11** (2004), no. 4, 375–379. <https://jimage.ilt.kharkov.ua/jmag/pdf/11/m11-0375e.pdf>
17. A. Gol'dberg, *On a connection between the number of poles of a meromorphic function and the number of zeros of its derivatives*, Contemp. Math. **382** (2005), 187–190. doi: 10.1090/conm/382/07058
18. A. A. Gol'dberg, M. M. Sheremeta, *On the boundedness of the l-index of canonical products*, Ukr. Math. Bull. **2** (2005), no. 1, 53-65. <http://iamm.su/upload/iblock/8ae/t2-n1-52-64.pdf>
19. A. Gol'dberg, *A new proof of Frank-Weissenborn inequality*, Zh. Mat. Fiz. Anal. Geom. **1** (2005), no. 1, 71–73. <https://jimage.ilt.kharkov.ua/jmag/pdf/1/jm01-0071e.pdf>
20. Goldberg, A. On the growth of entire solutions of algebraic differential equations. Lith. Math. J. **45** (2005), no. 1 44–49. doi: 10.1007/s10986-005-0005-8
21. A. A. Goldberg, I. V. Ostrovskii, Value distribution of meromorphic functions. Translations of Mathematical Monographs 236. Providence, RI: AMS (ISBN 978-0-8218-4265-2/hbk). xv, 488 p. (2008).
22. A. A. Goldberg, M. M. Sheremeta, M. V. Zabolotskii, O. B. Skaskiv, Complex analysis, Lviv: Afisha, 2002; 2008, 204 p. (in Ukrainian)
23. A. A. Goldberg, I. E. Chyzykyov, Introduction to the theory of functions of several complex variables, Lviv: Ivan Franko National University Publisher, 2009, 82. (in Ukrainian)