İSTANBUL ANALYSIS SEMINARS

SUBORDINATION AND SUPERORDINATION RESULTS FOR ANALYTIC OPERATORS

Teodor BULBOACĂ

Babeş-Bolyai University
Faculty of Mathematics and Computer Science

Abstract: The lecture shows some recent results obtained by the author involving different classes of analytic differential and integral operators that preserve the subordination and the superordination, in order to obtain *sandwich-type* and *modified (weighted) sandwich-type* results. These new results extend a few of the previous ones belonging to different authors, and moreover, some interesting applications obtained for appropriate choices of the parameters are also given.

References

[1] T. Bulboacă, "Sandwich-type results for a class of convex integral operators," *Acta Math. Sci. Ser. B Engl. Ed.* **32** (2012), no. 3, 989–1001.

[2] T. Bulboacă, N.E. Cho & P. Goswami, "Differential superordinations and sandwich-type results," in: *Current Topics in Pure and Computational Complex Analysis*, S.B. Joshi, M. Dorff and I. Lahiri (eds.), pp. 109–146. Trends in Mathematics, Springer India, 2014.

[3] N.E. Cho, T. Bulboacă & H.M. Srivastava, "A general family of integral operators and associated subordination and superordination properties of some special analytic function classes," *Appl. Math. Comput.* **219** (2012), no. 4, 2278–2288.

***Date*:** June 26, 2015
***Time*:** 15:40
***Place*:** Sabancı University, Karaköy Communication Center
Bankalar Caddesi 2, Karaköy 34420, İstanbul