

Majorization of the Temljakov operators for the Bavrin families in \mathbb{C}^n

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Abstract

The paper concerns holomorphic functions in complete bounded n -circular domains $\mathcal{G} \subset \mathbb{C}^n$. The object of the present investigation is to solve majorization problem of Temljakov operator $\mathcal{L}f$.

This type of problem has been studied earlier in [1] and [2]. In this paper we considered the family $\mathcal{M}_{\mathcal{G}} \cap \mathcal{F}_{(0,k)}(\mathcal{G})$, i.e. the function of the Bavrin family $\mathcal{M}_{\mathcal{G}}$, which are $(0, k)$ -symmetrical.

[1] E. Leś-Bomba, P. Liczberski New properties of some families of holomorphic function of several complex variables, *Demonstratio Math.*, 3(2009), 491 – 503.

[2] P. Liczberski, On Bavrin's families $\mathcal{M}_{\mathcal{G}}; \mathcal{N}_{\mathcal{G}}$ of analytic functions of two complex variables, *Bull. Techn. Sci. Univ. Lodz* 20(1988), 29–37, (in German).