

THE BOHR-TYPE PHENOMENON FOR SUBCLASSES OF UNIVALENT FUNCTIONS ON SHIFTED DISKS

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ABSTRACT. In this paper, we establish some Bohr-type inequalities for univalent and convex functions defined on the shifted disks

$$\Omega_k := \left\{ z \in \mathbb{C} : \left| z + \frac{k}{1-k} \right| < \frac{1}{1-k}, 0 \leq k < 1 \right\}.$$

We provide growth and distortion theorems, coefficient estimates, and covering theorems for these classes of functions, and subsequently determine the associated Bohr radius in Ω_k . This investigation paves the way for further research in the geometric function theory beyond the unit disk.

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