Logarithmic coefficients of some close-to-convex functions

Md Firoz Ali

Department of Mathematics, Indian Institute of Technology Kharagpur, India,
Email: ali.firoz89@gmail.com

The logarithmic coefficients γ_n of an analytic and univalent function f in the unit disk $\mathbb{D} = \{z \in \mathbb{C} : |z| < 1\}$ with the normalization $f(0) = 0 = f'(0) - 1$ are defined by $\log(f(z)/z) = 2\sum_{n=1}^{\infty} \gamma_n z^n$. In the present talk, we consider close-to-convex functions (with argument 0) and determine an upper bound of $|\gamma_n|$, $n = 1, 2, 3$ for such functions f. We also consider close-to-convex functions (with argument 0) with respect to the Koebe function and close-to-convex functions (with argument 0) with respect to odd starlike functions and determine the sharp upper bound of $|\gamma_n|$, $n = 1, 2, 3$ for such functions f.