
COEFFICIENT INEQUALITIES FOR A SUBCLASS OF BI-UNIVALENT FUNCTIONS INVOLVING GEGENBAUER POLYNOMIALS

Mucahit Buyankara^{1,*}

¹*Vocational School of Social Sciences, Bingol University, Bingol, Turkiye*

ABSTRACT

In this paper, we establish bounds for the initial Taylor–Maclaurin coefficients $|a_2|$ and $|a_3|$ for a new subclass of analytic and bi-univalent functions in the open unit disk involving Gegenbauer polynomials. Furthermore, we investigate several special cases and consequences of this new subclass.

Keywords Analytic and bi-univalent functions · Subordination · Coefficient inequalities · Gegenbauer polynomials

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*Corresponding Author's E-mail: mbuyankara@bingol.edu.tr