

**A NEW SUBCLASS OF BI-UNIVALENT FUNCTIONS RELATED
TO q -DIFFERENTIAL OPERATOR AND INVOLUTION NUMBERS**

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Abstract: In this work, we employ the Salagean q -differential operator in conjunction with involution numbers to define a new subclass of bi-univalent functions in the open unit disk. For this class, we derive coefficient estimates, including bounds for the general Taylor–Maclaurin coefficients and the Fekete–Szegő functional coefficients.

Keywords and Phrases: Analytic functions, Univalent and Bi-univalent functions, Fekete-Szegő inequality, Involution numbers and Salagean q -differential operator.

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1. Introduction

We denote by $\mathcal{A}$ the class of functions, that are analytic in the open unit disk

$$\mathbb{D} = \{z \in \mathbb{C} : |z| < 1\},$$