

ON CERTAIN GENERALIZED CLASS OF  $p$ -VALENTLY  
PARABOLIC STARLIKE FUNCTIONS BASED ON AN  
INTEGRAL OPERATOR

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**Abstract.** By using an integral operator, we introduce a class  $p - SP_{\xi}(\alpha, \beta)$  of parabolic starlike functions in the unit disk  $\Delta$  and investigate the interesting properties of this class .

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**Key words.** Multivalent function, parabolic region.

REFERENCES

- [1] RØNNING, F., *Uniformly convex functions and a corresponding class of starlike functions*, Proc. Amer. Math. Soc., **118** (1993), 189–196.
- [2] RØNNING, F., *On starlike functions associated with parabolic regions*, Ann. Univ. Mariae Curie-sklodowska Sect., **A 45** (1991), 117–122.
- [3] SRIVASTAVA, H. M. and MISHRA, A. K., *Applications of fractional calculus to parabolic starlike and uniformly convex functions*, Comput. Math. Appl. **39** (2000), 57–69.
- [4] SRIVASTAVA, H. M., MISHRA, A. K. and DAS, M. K., *A class of parabolic starlike functions*, Fractional calculus and applied analysis, **6** (2003).

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