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Neighbourhoods and Partial Sums of Starlike Functions Based on Ruscheweyh Derivatives

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**Abstract:** In this paper a new class  $S_p^{\lambda}\left(lpha,eta
ight)$  of starlike functions is introduced. A

subclass  $TS_p^{\lambda}\left(\alpha,\beta\right)$  of  $S_p^{\lambda}\left(\alpha,\beta\right)$  with negative coefficients is also

considered. These classes are based on Ruscheweyh derivatives. Certain neighbourhood results are obtained. Partial sums  $f_n(z)$  of functions f(z)

in these classes are considered and sharp lower bounds for the ratios of real part of f(z) to  $f_n(z)$  and f'(z) to  $f_n'(z)$  are determined.

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