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On Application of Differential Subordination for Certain Subclass of Meromorphically p -Valent Functions with Positive Coefficients Defined by Linear Operator

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Abstract: This paper is mainly concerned with the application of differential subordinations for the class of meromorphic multivalent functions with positive coefficients defined by a linear operator satisfying the following:

$$-\frac{z^{p+1}(L^n f(z))'}{p} \prec \frac{1 + Az}{1 + Bz} \quad (n \in \mathbb{N}_0; z \in U).$$

In the present paper, we study the coefficient bounds, δ -neighborhoods and integral representations. We also obtain linear combinations, weighted and arithmetic means and convolution properties.



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