

## ON A SUBCLASS OF MEROMORPHICALLY STARLIKE FUNCTIONS WITH FIXED INVERSE POINT

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### Abstract

In this paper we introduce a new subclass of meromorphically univalent functions with fixed inverse point.

Let  $\sum_{0,M(z_0)}^* (\alpha)$  be the class of functions of the form  $f(z) = \frac{a_{-1}}{z} + \sum_{n=1}^{\infty} a_n z^n$ ,  $a_n \geq 0$ ,

$a_{-1} > 0$  which are starlike of order  $\alpha$  ( $0 \leq \alpha < 1$ ) in  $|z| < 1$  and satisfy

$$f(z_0) = \frac{1}{z_0}, \quad (-1 < z_0 < 1, \quad z_0 \neq 1).$$

We determine coefficient estimates, distortion properties and radius of convexity for the

class  $\sum_{0,M(z_0)}^* (\alpha)$ . Furthermore, we proved that the class  $\sum_{0,M(z_0)}^* (\alpha)$  is closed under

arithmetic mean and convex linear combinations.

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**Keywords** : Meromorphic, Univalent, fixed inverse point, coefficient estimates, distortion properties, radius of convexity.

**AMS subject classification** (2000). Primary 30 C 45