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SOME SUBORDINATION PROPERTIES OF GENERALIZED JUNG–KIM–SRIVASTAVA INTEGRAL OPERATOR

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Abstract. The object of this paper is to discuss some interesting properties of the integral operator

$$\mathscr{P}^{\alpha} f(z) = \frac{(p+1)^{\alpha}}{z\Gamma(\alpha)} \int_0^z \left(\log \frac{z}{t}\right)^{\alpha-1} f(t)dt, \quad (\alpha > 0),$$

for the class of all analytic functions $f(z)$ of the form $f(z) = z + \sum_{n=p+1}^{\infty} a_n z^n$, for $z \in \Delta = \{z \in \mathbb{C} : |z| < 1\}$. For $p = 1$, this integral operator was introduced and studied by Jung, Kim and Srivastava in [2].

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