

**ON CONVERGENCE OF A KIND OF COMPLEX NONLINEAR
BERNSTEIN OPERATORS**

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In this work we deal with the approximation properties with nonlinear complex Bernstein operators attached to analytic functions on compact disks. We give convergence theorem for nonlinear Bernstein operators of the form

$$(NB_n f)(z) = \sum_{k=0}^n P_{k,n}(z, f(\frac{k}{n})), \quad |z| < 1$$

where $f : G \rightarrow \mathbb{C}$ is analytic in $G \subset \mathbb{C}$

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