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Jackson's Theorem on Bounded Symmetric domains

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摘要

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Jackson's Theorem on Bounded Symmetric domains

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Abstract Polynomial approximation is studied on bounded symmetric domain Ω in \mathbb{C}^n for holomorphic function spaces $\mathcal{H}(\Omega)$, such as Bloch type spaces, Bergman type spaces, Hardy spaces, Ω -algebra and Lipschitz space. We extend the classical Jackson's theorem to several complex variables: $E_k(f, \mathcal{H}(\Omega)) \leq \omega(1/k, f, \mathcal{H}(\Omega))$, where $E_k(f, \mathcal{H}(\Omega))$ is the deviation of the best approximation of $f \in \mathcal{H}(\Omega)$ by polynomials of degree at most k with respect to the $\mathcal{H}(\Omega)$ -metric and $\omega(1/k, f, \mathcal{H}(\Omega))$ is the corresponding modulus of continuity.

Key words [Bounded symmetric domains](#) [Bergman spaces](#) [Polynomial approximation](#)

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