

Norm properties of generalized derivations on norm ideals

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We investigate the norm properties of a generalized derivation on a norm ideal J of $B(H)$, the algebra of bounded linear operators on a Hilbert space H . Specifically, we extend the concept of S -universality from the inner derivation to the generalized derivation context. Further, we investigate the applications of the concept of S -universality.

Keywords: Norms; S -universal operators; Generalized derivation; Norm ideals; Diameter of a set; Circumdiameter; Numerical range; Spectrum; Spectraloid; Normaloid.