



Walden FREEDMAN (wff6@humboldt.edu), Department of Mathematics, Humboldt State University, Arcata, CA 95521, USA, *An extension property for Banach spaces.*

ABSTRACT. A Banach space X has property (E) if every operator from X into c_0 extends to an operator from X^{**} into c_0 ; X has property (L) if whenever K is a bounded subset of X which is limited in X^{**} , then K is limited in X ; the space X has property (G) if whenever K is a bounded subset of X which is a Grothendieck subset of X^{**} , then K is a Grothendieck subset of X . In all of these, we consider X as canonically embedded in X^{**} . We study these properties in connection with

other geometric properties, such as the Phillips properties, the Gelfand-Phillips and weak Gelfand-Phillips properties, and the property of being a Grothendieck space.