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Walden Freedman* (wfreedman@ku.edu.tr), Koc University, Istinye-80860 Istanbul, Turkey.

An extension property for Banach spaces. Preliminary report.

A Banach space X has property (E) if every operator from X into c_0 extends to an operator from X^{**} into c_0 ; the space X has property (L) (property (G)) if every bounded subset $K \subseteq X$ which is limited (Grothendieck) in X^{**} is limited (Grothendieck) in X . In all of these, we consider X as canonically embedded in X^{**} . We study these new properties in connection with other geometric properties, such as the recently defined Phillips properties, the Gelfand-Phillips and weak Gelfand-Phillips properties, and the property of being a Grothendieck space. (Received August 07, 2000)