1067-46-202Ioana Ghenciu* (ioana.ghenciu@uwrf.edu), River Falls, WI 54022, and Paul Lewis.
Unconditional convergence in the strong operator topology and ℓ_{∞} . Preliminary report.

In this paper we study non-complemented spaces of operators and the embeddability of ℓ_{∞} in the spaces of operators L(X,Y), K(X,Y), and $K_{w^*}(X^*,Y)$. Results of Kalton, Feder, Emmanuele, and Bator and Lewis are generalized. A vector measure result is used to study the complementation of the spaces W(X,Y) and K(X,Y) in the space L(X,Y), as well as the complementation of K(X,Y) in W(X,Y).

A fundamental result of Drewnowski is used to establish a result for operator valued measures, from which we obtain as corollaries the Vitali-Hahn-Saks-Nikodym theorem, the Nikodym Boundedness theorem, and a Banach space version of the Phillips Lemma. (Received August 02, 2010)