1035-46-1715 Elizabeth M Bator*, bator@unt.edu, and Rhonda Huettenmueller. Operators Determined by Subspaces. Preliminary report.

Motivated by a result of Gunnar Stefansson, we define an operator $T: X^* \to Y$ is determined by a closed subspace D of X if $T_f(x^*) = 0$ if x^* restricted to D is 0. D is then referred to as a determining space of T. We consider properties of determining subspaces, as well as $weak^* - weak$ continuous operators. (Received September 20, 2007)