OPERATOR TOPOLOGIES AND CONVERGENCE

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Abstract. Let B(X,Y) be the continuous linear transformations from a normed linear space X to a normed linear space Y. We present two general results - one for the norm topology on Y and one for the weak topology on Y - that explain how convergence of sequences in B(X,Y) with respect to a topology of uniform convergence on a prescribed family of norm bounded subsets of X is reflected in the bornological convergence of the associated sequence of graphs with respect to a family of subsets of X x Y.