1046-54-1444 **Wladyslaw Kulpa** and **Andrzej Szymanski*** (andrzej.szymanski@sru.edu), Department of Mathematics, Slippery Rock University, Slippery Rock, PA 16057. *Fixed point theorems for n-continuous L*-operators.* Preliminary report.

An L*-operator on a topological space X is a function L defined on the set of all non-empty finite subsets of X (=Fin(X)) into exp(X) satisfying the following condition: (*) If A is in Fin(X) and U(x):xA is an open cover of X, then there exists a non-empty subset B of A such that the family consisting of L(B)U(x):xB, has a non-empty intersection. An L*-operator L on a topological space X is said to be n-continuous at a point p if each neighborhood U of p contains a neighborhood V of p such that L(A)is contained in U for each at most n+1 element subset A of V. Main Theorem. Let X be a Hausdorff space that admits an n-continuous L*-operator for some n >0. Then each continuous function f from X into X such that the closure of f(X) is a compact subspace of X of the covering dimension at most n has a fixed point. (Received September 15, 2008)