1014-28-1384   **Ron E. Rietz**, Gustavus Adlophus College, 800 West College Avenue, St. Peter, MN 56082, and **Trevor J. Potter*** (`tpotter@gac.edu`), Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082. *Subspaces of finitely additive measures on N.* Preliminary report.

A measure on N, the set of natural numbers, is a function which assigns a real number to each subset of N and has the property that the measure of the union of a collection of pairwise disjoint subsets of N equals the sum of their individual measures. We consider finitely additive measures, a type of measure which has the above property only for finite collections of pairwise disjoint sets. We show that l_∞^*, the space of all finitely additive measures on N, can be written as the direct sum of ultrafilter measures and full-valued measures. In addition, within the subspace of full-valued measures, we can find nested isometrically isomorphic copies of l_∞^*. (Received September 28, 2005)

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