

ANALYSIS SEMINAR

AN ISOMORPHIC CHARACTERIZATION OF L^1 -SPACES

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ABSTRACT The talk will discuss a recent (2008) new representation theorem for Hausdorff topological ordered vector spaces with: the Riesz decomposition property, locally solid and sequentially complete topology, and the positive cone generated by a closed bounded set not containing the origin. Every such space is isomorphic to some L^1 -space. The isometric part of the main result implies the well-known representation theorem of Kakutani for (AL)-spaces.