

Meeting: 998, Houston, Texas, AMS CP 1, Session for Contributed Papers

998-46-224 **Andrew B. Perry*** (aperry@spfldcol.edu), Dept. of Mathematics, Springfield College,
Springfield, MA 01109. *Suspaces of Certain Rearrangement Invariant Spaces Not Containing*
 l_2 . Preliminary report.

We consider rearrangement invariant spaces X satisfying certain hypotheses: X has Boyd indices strictly between 2 and infinity, the Haar system is an unconditional basis of X , and X has an upper l_2 estimate with respect to the lattice ordering induced by the Haar system. Let Y be a subspace of this r.i.s. X such that no subspace of Y is isomorphic to l_2 . We prove various theorems related to this subspace Y . For example, Y is isomorphic to a subspace of a certain Banach space constructed as a disjoint sum. (Received February 27, 2004)