Meeting: 1003, Atlanta, Georgia, SS 27A, AMS-SIAM Special Session on Analysis and Applications in Nonlinear Partial Differential Equations, I

1003-40-1426 **Richard F. Patterson*** (`rpatters@unf.edu`), Department of Mathematics and Statistics, University of North Florida, 4567 Saint Johns Bluff Road, South, Jacksonville, FL 32224-2645. *Summability of λ-Rearrangement for Double Sequences.*

In this article we introduce the notion of rearrangement of double sequences. Using this concept we present theorems for P-convergent sequences that are characterized by the existence of a RH-regular matrix that sums every rearrangement of the double sequence. Additionally, multidimensional characterization of absolute summability will also be presented. (Received October 05, 2004)