

1015-42-145

**Arpad Benyi**, Wester Washington University, **Diego Maldonado**, University of Maryland, **Andrea R. Nahmod**, University of Massachusetts, Amherst, and **Rodolfo H. Torres\*** (torres@math.ku.edu), Department of Mathematics, University of Kansas, 1460 Jayhawk Blvd, Lawrence, KS 66045-7523. *Multilinear Paraproducts Revisited*.

We present several estimates for multilinear paraproducts in a variety of function spaces. The techniques involved include multilinear Calderón-Zygmund theory, molecular and wavelet decompositions. The results extend to the general setting of spaces of homogeneous type. (Received February 02, 2006)