

1063-42-55

Alexander L Volberg* (sashavolberg@yahoo.com), Dept of Math., MSU, East Lansing, MI
48824. *A nonhomogeneous and bilinear outlook for sharp weighted estimates of singular operators.*

A nonhomogeneous and bilinear outlook for sharp weighted estimates of singular operators consists of applying the ideas that appeared in problems of nonhomogeneous analysis (random lattices, Tb theorems with partial data, etc) to much more homogeneous problems of one weight estimates of Calderón–Zygmund operators. The gain is then the sharp estimates in terms of weight. We also show how bilinear estimates appear absolutely naturally in dealing with these weighted sharp—and just linear—estimates. (Received July 29, 2010)