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Erin Terwilleger* (terwilleger@math.uconn.edu), Department of Mathematics, U-3009, University of Connecticut, Storrs, CT 06269. *Boundedness for a bilinear model sum operator on \mathbb{R}^n .*

This article obtains a multidimensional extension of Lacey and Thiele's result on the boundedness of a model sum which plays a crucial role in the boundedness of the bilinear Hilbert transform in one dimension. The proof is a simplification of the original proof of Lacey and Thiele and uses ideas of the original along with ideas by Muscalu, Tao and Thiele; Grafakos, Tao and Terwilleger; and Bilyk and Grafakos. (Received August 21, 2007)