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Armen Vagharshakyan* (armen@math.brown.edu). *Lower bounds for L_1 discrepancy.*

We find the best constant of the leading term of the asymptotical lower bound for the L_1 norm of two-dimensional axis-parallel discrepancy that could be obtained by K.Roth's "test function" method among a large class of test functions.

We use the methods of combinatorics, probability, complex and harmonic analysis. (Received September 18, 2012)