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Moment inequalities for trigonometric polynomials with spectrum in curved hypersurfaces

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(Submitted on 6 Jul 2011)

Using the multilinear theory of oscillatory integral operators, we establish a square function inequality with implications to moment inequalities for discrete exponential sums which frequencies lie on curved hyper-surfaces. In particular a new distributional estimate for toral eigenfunctions is established.

Submission history

From: Jean Bourgain [view email]
[v1] Wed, 6 Jul 2011 13:49:25 GMT (11kb)

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