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An observation on the Turán-Nazarov

(Submitted on 30 Jun 2011 (v1), last revised 19 Mar 2012 (this version, v2))

The main observation of this note is that the Lebesgue measure \$\mu\$ in the Tur\'an-Nazarov

inequality for exponential polynomials can be replaced with a certain geometric invariant \$\omega \ge \mu\$, which can be effectively estimated in terms of the metric entropy of a set, and may be nonzero

for discrete and even finite sets. While the frequencies (the imaginary parts of the exponents) do not

enter in the original Tur\'an-Nazarov inequality, they necessarily enter the definition of \$\omega\$.

Submission history

inequality

From: Omer Friedland [view email] [v1] Thu, 30 Jun 2011 20:37:40 GMT (9kb) [v2] Mon, 19 Mar 2012 14:27:25 GMT (10kb)

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