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Alexander Volberg: Dimension free discrete Remez inequality and dimension free Bohnenblust–Hille inequality for cyclic groups

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We consider a very high dimensional torus

T^n and a rather sparse lattice of points on it. Then if an analytic polynomial of degree $d \ll n$ is bounded on this lattice, then it is bounded on

T^n independent of n . It is a joint project with Joe Slote and Haonan Zhang.

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