

Distortion of Lipschitz Functions on $c_0(\Gamma)$

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It is a famous result by Gowers that every real Lipschitz function on the sphere of c_0 stabilizes on some infinite-dimensional subspace. We prove for every uncountable Γ , there is a real symmetric 1-Lipschitz function defined on the sphere of $c_0(\Gamma)$ which doesn't stabilize on any of its subspaces with density $\text{dens } c_0(\Gamma)$.