

44th Summer Symposium in Real Analysis

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Title of the talk

Nikodym-type spherical maximal functions

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Abstract

We study L^p bounds on Nikodym maximal functions associated to spheres. In contrast to the spherical maximal functions studied by Stein and Bourgain, our maximal functions are uncentered: for each point in \mathbb{R}^n , we take the supremum over a family of spheres containing that point.