



Universitat Autònoma
de Barcelona



UNIVERSITAT DE
BARCELONA



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

Barcelona Analysis Seminar 2021–2022

URL. <https://mat.uab.cat/web/seminarianalisi/>

Date. April 25, 2022

Time. 15:00 CET

Room. CRM A1 (Universitat Autònoma de Barcelona)

Online streaming (Zoom). Click here to join.

Nikodym-type spherical maximal functions

Alan Chang

Princeton University

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.