

Seminari Informal de Matemàtiques de Barcelona

Speaker: Sergi Baena i Miret.
University: Universitat de Barcelona.

Date: Tuesday, 23rd of June.
Schedule: 12:00, *virtual coffee break (bring your coffee)*; 12:20, talk.
Place: Jitsi Meet. *A link will be sent via email, please sign up in our web.*
Language: English.

Title: There are no Banach function spaces, only weighted L^2 .

Abstract: An important property of the A_p weights is the extrapolation theorem of Rubio de Francia. It was announced in 1982 and given with a detailed proof in 1984, both by J.L. Rubio de Francia. In its original version, reads as follows: if T is a sublinear operator which satisfies the strong type boundedness

$$T : L^2(v) \rightarrow L^2(v)$$

for every weight $v \in A_2$ with constant only depending on v , then for $1 < p < \infty$,

$$T : L^p(v) \rightarrow L^p(v)$$

is bounded for every $v \in A_p$, with constant depending only on v . We will make a review of some of the different versions that have been appeared since then.

About us: The SIMBa is a young seminar organized by students of the Faculties of Mathematics and Computer Science of Barcelona. It is aimed at doctoral, master's degree students and, also, for those who are in the last grade courses. Our goal is that each one can make known the research which they are doing, as well as, to get new knowledge of other areas of mathematics than his own..

For more information, visit at www.ub.edu/simba/en/.

If you have any doubt or comment, do not hesitate to contact us by sending an email to seminari.simba@ub.edu.