

Endpoint estimates for Rubio de Francia operators

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I shall talk about a technique that allow us to obtain end-point estimates for linear and multilinear operator whenever some information on the behaviour of the norm of the operators is known. The main result goes back to 1951 and it is due to S. Yano and known as extrapolation theory.

I shall present an extension to the case of multilinear operators and give some applications to the particular case of the so-called Rubio de Francia operator.

In particular, some estimates for the Bilinear Bochner-Riesz operator at the critical index will be presented.

This is part of the PhD thesis of Laura Sánchez-Pascuala supervised in collaboration with Teresa Luque.
