

Dimarts 25 de juny del 2013, 15:00h

Aula B2 (UB).

Lorentz-Shimogaki and Boyd theorems for weighted Lorentz spaces

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ABSTRACT: It is known that the boundedness of the Hardy-Littlewood maximal operator, and the Hilbert transform on the Lorentz spaces have been characterized in terms of the so-called Boyd indices, leading to the Lorentz-Shimogaki and Boyd theorems, respectively. In this talk, we will start by discussing these classical results. Then, we will present a generalization of these theorems to the setting of Weighted Lorentz spaces, which was motivated by a work of Lerner and Pérez.