SPEAKER:

Speaker: Carlos Pérez, University of the Basque Country and Ikerbasque

TITLE: Optimality of the exponents in weighted estimates without examples

ABSTRACT:

We present a general approach for proving the optimality of the exponents on weighted estimates. We show that if an operator T satises a bound like

$$\|T\|_{L^p(w)} \leq c[w]_{A_p}^{\beta}, \ w \in A_p,$$

then the optimal lower bound for β is closely related to the asymptotic behaviour of the unweighted L^p-norm $\|T\|_{L^p(R^n)}$ as p goes to 1 and ∞.