**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 $T$ satisfies a bound like

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

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