

SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 2 de marzo de 2012

11:30 h., Módulo 17 (antiguo C-XV) - Aula 520 (Dept. Matemáticas UAM)

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Regularity estimates in Hölder spaces
for Schrödinger operators via a $T1$
theorem

Resumen:

We derive Hölder regularity estimates for operators associated with a time independent Schrödinger operator of the form $-\Delta + V$.

The results are obtained by checking a certain condition to the function $T1$.

Our general method applies to get regularity estimates for maximal operators and square functions of the heat and Poisson semigroups, for Laplace transform type multipliers and also for Riesz transforms and negative powers $(-\Delta + V)^{-\gamma/2}$, all of them in an unified way.