

Seminario de análisis matemático y aplicaciones
Analisi matematikoa eta aplikazioak mintegia

Frequency-dependent decay of Schrödinger evolutions

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ABSTRACT: I will present some recent results concerned with Schrödinger groups of the form e^{itH^a} , being $H = (-i\nabla + A)^2 + V(x)$ and $a > 0$. Using the spherical harmonics decomposition $H = \sum_{m \in \mathbb{Z}} H_m \otimes \mathbf{1}$, we are able to establish the dispersive behavior of the single projection H_m and to obtain frequency-dependent dispersive estimates, in suitable topologies. These are results of the collaborations with F. Cacciafesta (Univ. Padova), V. Felli (Milano Bicocca), M. Fontelos (ICMAT - Madrid), G. Grillo (Milano Politecnico), H. Kovarik (Univ. Brescia), and A. Primo (Autónoma - Madrid).

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Sala de seminarios de la sección de matemáticas
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