



COLLOQUIUM
DEPARTAMENTO DE MATEMÁTICAS
UNIVERSIDAD CARLOS III DE MADRID

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Some remarks about the uncertainty principle

Abstract:

I will survey some recent results obtained in collaboration with L. Escauriaza, C. E. Kenig and G. Ponce about the connection of the well known Hardy's uncertainty principle and the evolution of gaussian wave packets for Schrödinger equations.

I will start recalling the classical Heisenberg uncertainty principle and the virial identity in the Schrödinger setting. Finally, I will see how this type of ideas give a new approach to understand Paley-Wiener theory. Some open questions will be also proposed.

Hora: 10:45

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