SEMINARIO DE ANÁLISIS Y APLICACIONES

Jueves, 16 de febrero de 2012

11:30 h., Aula Naranja (ICMat, Campus de Cantoblanco)

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Local smoothing with a prescribed loss for the Schrödinger equation

Resumen:

Local smoothing estimates express that, on average in time and locally in space, solutions to the Schrödinger equation are more regular than the initial data.

It is known that the presence of trapped geodesics forces a loss in the local smoothing effect, but not too many examples have been studied.

In joint work with J. Wunsch, we study some examples which fill in the gap between no loss and total loss in the smoothing effect.