SEMINARIO DE ANÁLISIS Y APLICACIONES

Jueves, 13 de Junio

11:30 h., Aula Gris 1 (ICMAT)

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Bilinear restriction estimates and the division problem

Resumen:

Bilinear restriction (or extension) estimates for free waves give an efficient way to exploit both transversality and curvature, and have a number of applications in harmonic analysis and PDE. We give an overview of these estimates, as well as some recent extensions of the bilinear theory from free waves to the adapted function spaces U^p . These extensions give a way to connect the bilinear restriction theory with the global well-posedness problem for dispersive PDE. In particular, they can be used to give another solution to the division problem for the wave maps equation.

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