SEMINARI D'ANÀLISI UAB-UB **Curs 2011–2012**

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Aula T2 (UB).

An end-point result for bilinear Fourier integral operators.

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ABSTRACT:
We will describe an extension of a theorem of R. Coifman and Y. Meyer regarding bilinear pseudo-differential operators to bilinear Fourier integral operators.

More precisely, we prove the global $L^2 \times L^2 \to L^1$ boundedness of bilinear Fourier integral operators with amplitudes in the Hörmander class $S^0_{1,0}$. The proof uses a quadratic $T(1)$-theorem and commutator estimates.

This is joint work with David Rule and Wolfgang Staubach.