

# SEMINARIO DE ANÁLISIS Y APLICACIONES

Miércoles, May 31, 2017

15:00 h., Módulo 17 - Aula 520 (Depto. Matemáticas UAM)

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A scattering map in two dimensions

## Resumen:

We consider the scattering map introduced by Beals and Coifman and Fokas and Ablowitz that may be used to transform one of the Davey-Stewartson equations to a linear evolution. We give mapping properties of the scattering transform on weighted  $L^2$  Sobolev spaces that mimic well-known properties of the Fourier transform. This is joint work with Katharine Ott, Peter Perry, and Nathan Serpico.

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