# SEMINARIO DE ANÁLISIS

Departamento de Matemáticas. Universidad Autónoma de Madrid

## Miércoles, 05/09/2012

**11:30 h.** en el aula de seminarios **01.17.SS-320**

## Anthony Carbery

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## The non-linear Loomis-Whitney inequality and factorisation of functions

**Abstract**: We discuss a new approach to the nonlinear Loomis–Whitney inequality, applications of which are common in nonlinear PDE. This new approach is based on a technique of factorisation due to Valdimarsson and the speaker and which is ultimately inspired by Guth's proof of the multilinear Kakeya theorem.