

# SEMINARIO DE ANÁLISIS Y APLICACIONES

Viernes, 2 de diciembre de 2016

12:00 h., [Aula Naranja](#) (ICMAT)

## **Evgeny Lakshtanov**

CIDMA, Departamento de Matemática, Aveiro

Solution of the initial value problem for  
the focusing Davey-Stewartson II system

### **Resumen:**

The Davey-Stewartson equation describes the evolution of a three-dimensional wave-packet on water of finite depth. From the mathematical point of view it is the most natural (among all the 2+1 completely integrable systems) generalization of 1+1 Nonlinear Schrodinger equation. We construct solutions of the focusing Davey-Stewartson equation with locally supported initial data.

ICMAT CSIC-UAM-UC3M-UCM  
Departamento de Matemáticas. U.A.M.