



DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO Y
MATEMÁTICA APLICADA



SEMINARIO DE MATEMÁTICA APLICADA

Adrián C. Murza

University of Texas at Dallas

Integrability of dynamical systems: overview of main techniques with emphasis on the Darboux Theory of Integrability.

The first part of the talk is a survey on the main techniques of integrability for polynomial vector fields on \mathbb{R}^n . Then we provide new results about application of the Darboux Theory of Integrability on systems of type Lotka-Volterra and on polynomial vector fields defined on S^2 . These results come from my collaboration with Professors Jaume Llibre and Antonio E. Teruel.

Organizado por el Instituto de Matemática Interdisciplinar (IMI), el grupo UCM MOMAT, y el Departamento de Análisis Matemático y Matemática Aplicada

Fecha: Miércoles, 30 de mayo

Hora: 11:00h

**Lugar: Aula 209, seminario Alberto Dou
Facultad de CC Matemáticas, UCM**