

# Difusión no lineal en Madrid

Seminario conjunto de las universidades: UAM, UC3M, UCM, UPM y URJC

*Smoothing and long time behaviour  
for subelliptic problems*

Prof. **Boguslaw Zegarlinski**

Imperial College, London (UK)

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Seminario del Departamento de Matemáticas, aula C-17-520  
U. Autónoma de Madrid

**Resumen.** I will review various results and open problems of projects I was involved recently on linear and nonlinear PDEs. This would include problems of smoothing and longtime behaviour for subelliptic case in infinite dimensions, R-D problems via log-Sobolev inequality (in any dimension), a hypoelliptic problem with mean field type coefficients.

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*Comité organizador:* Matteo Bonforte, Mar González, Arturo de Pablo y  
Fernando Quirós