

# Seminario de Geometría y Topología



## **A nonlocal diffusion problem on manifolds**

**María del Mar González  
(Universidad Politécnica de Cataluña)**

**Resumen:**

We consider a nonlocal diffusion problem on a manifold. This kind of equations can model diffusions when there are long range effects and have been widely studied in Euclidean space. After considering existence and uniqueness of solutions, we concentrate on the long time behavior, both on compact and noncompact manifolds. For the model case of hyperbolic space we find a different and interesting behavior. This is joint work with C. Bandle, M. Fontelos and N. Wolanski.

**Lugar: Universidad Complutense de Madrid  
Facultad de Ciencias Matemáticas**

**Departamento de Geometría y Topología, Sala 225**

**Fecha y Hora: Miércoles, 28 de octubre de 2015, 12:30**

**[www.ucm.es/geometria\\_topologia/curso-academico-2013-2014-8](http://www.ucm.es/geometria_topologia/curso-academico-2013-2014-8)**