



Departamento  
de Matemática  
Aplicada



## Seminario de Matemática Aplicada

**Jean-Michel Rakotoson,  
Universidad de Poitiers,  
Francia**

**“ $L^1(\Omega, \text{dist}(x, \partial\Omega))$  - problems and  
applications revisited”**

The new Hardy inequalities developed in the recent paper of Rakotoson bring a new insight in the study of the Brezis very Weak solution for the linear equation  $Lu = f$  in  $\Omega$ , with  $u = 0$  on  $\partial\Omega$ , whenever  $f$  belongs to  $L^1(\Omega, d)$ ,  $d(x)$  is the distance of  $x$  to the boundary  $\partial\Omega$  of the open bounded set  $\Omega$ . Thanks to this point of view, we want to review and to improve many previous results related to this notion of very weak solution.

Organizado por el Departamento de Matemática Aplicada, el Grupo MOMAT, el proyecto europeo FIRST y el Instituto de Matemática Interdisciplinar (IMI).

**2 de octubre 2012 11:00 hs.  
Seminario Alberto Dou (sala 209)  
Facultad de CC Matemáticas, UCM**