DEPARTAMENTO DE
ANÁLISIS MATEMÁTICO Y
MATEMÁTICA APLICADA

Instituto de
Matemática
Interdisciplinar

COLLOQUIUM DE ANÁLISIS MATEMÁTICO

Aris Daniilidis

(University of Chile)

KL-desingularization: from the gradient dynamics to the sweeping process.

Abstract:

In this talk we review the desingularization of the derivative for a gradient system defined by an o-minimal functions (which leads to the smooth KL-inequality). We shall show that a similar process can be done for the co-derivative of the sweeping process map, whenever the latter is assumed to be o-minimal. This leads to the conclusion that bounded trajectories of a tame sweeping process have finite length. Moreover, Kurdyka desingularization of a smooth function can be seen as a special case of the co-derivative desingularization.

Organizado por el Instituto de Matemática Interdisciplinar (IMI) y el Departamento de Análisis Matemático y Matemática Aplicada

Fecha: 3 de febrero de 2020
Hora: 13:00
Lugar: Aula 222
Facultad de CC Matemáticas, UCM