## FIRST WORKSHOP

"DYNAMICAL SYSTEMS APPLIED TO BIOLOGY AND NATURAL SCIENCES" 1-3 FEBRUARY 2010 CMAF, LISBON UNIVERSITY

## ABSTRACT | João Boto

## Title

Reaction-superdiffusion systems in epidemiology

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## **Abstract**

We use superdiffusion to model spacial extended stochastic processes in epidemiology. This gives a more realistic mechanism of spreading epidemics than ordinary diffusion, since it can take into account non-local effects.