

## **SEMINÁRIO DO GRUPO DE FÍSICA MATEMÁTICA**

**Dia 30 de Novembro (quinta-feira), às 11h00, sala 6.2.33**

### **Spreading speeds in some diffusive prey- predator systems**

**Thomas Giletti**  
(Univ. de Lorraine)

**Abstract:** In this talk, I will discuss the spreading properties of solutions of some diffusive prey-predator (or combustion) systems, for which the comparison principle does not hold. Both species are assumed to initially inhabit a compactly supported region. We will see that spreading then occurs, for both species, with a definite speed. Intriguingly, the spreading speeds may be different between the prey and the predator, depending on the situation. This is a joint work with A. Ducrot and H. Matano.