



DEPARTAMENTO DE
GEOMETRIA Y TOPOLOGIA

Conferencia

Programa de Matemática Pura Intertemática



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Introduction to semi-algebraic methods in epidemiologic models

Many epidemiologic models possess two equilibria, one disease free and one endemic. In several significant examples, the existence and stability of these models depend on the sign of a polynomial in the parameters of the system and the transition between them is, as often in biology, transcritical. Semi-algebraic geometry is a natural framework for such studies.

The lecture will present recent results obtained in a research groupe containing Otto Adamou (Niger), M'Hammed El Kahoui (Marrakech), Thierry van Effelterre (GlaxoSmithKline Biologicals) and M.F. Roy.

Organizado por los departamentos de Geometría y Topología y de Álgebra, el proyecto de investigación *Geometría Real* (MTM2005-02865) y el Instituto de Matemática Interdisciplinar.

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