

SPECIAL COLLOQUIUM

SOME QUESTIONS - LOOKING FOR SOLUTIONS IN DYNAMICAL SYSTEMS

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ABSTRACT: Dynamical systems appear in many models in all sciences and technology. They can be either discrete or continuous, finite or infinite dimensional, deterministic or with random terms.

Many theoretical results, the related algorithms and implementations for careful simulations and a wide range of applications have been obtained up to now. But still many key questions remain open. They are mainly related either to global aspects of the dynamics or to the lack of a sufficiently good agreement between qualitative and quantitative results. In the talk some of these questions, for which the speaker is not aware of the existence of a good solution, will be presented.