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Abstract

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ABSTRACT

This conference was organized jointly by the "Laboratoire de Topologie"and the "Equipe de probabilités" of the University of Dijon. From june 22 to june 26 1981 there were about fifty participants.

As the title indicates, the organizers'aim was to bring together specialists of ergodic theory and specialists of qualitative analysis of dynamical systems (and in particular of bifurcation problems). We choosed eight communications among those which were made during the conference.

We begin with four papers about bifurcations : experimental examples of bifurcations in chemistry, bifurcations of gradient vectorfields, of volume-preserving vector fields in dimension four, of unimodal mappings interval.

Next comes a paper about abstract ergodic theory.

The last three papers concern qualitative properties of more particular systems : stability of parabolic points of plane area preserving mappings, stability of principal curvature lines on surfaces, characterization of a center for differential forms in dimension two.