

INTERNATIONAL CONFERENCE ON DYNAMICAL SYSTEMS  
IN HONOUR OF MICHAŁ MISIUREWICZ ON HIS 60TH BIRTHDAY

BĘDLEWO, POLAND, JUNE 30 – JULY 5, 2008

## Minimal sets of periods for Morse-Smale diffeomorphisms on orientable compact surfaces

Jaume Llibre (Universitat Autònoma de Barcelona)

We study the minimal sets of periods for the Morse-Smale diffeomorphisms on orientable compact surfaces, in fact our study extends to the  $C^1$  diffeomorphisms on these surfaces having all the periodic points hyperbolic and the same action on the homology than the Morse-Smale diffeomorphisms.

We provide explicit information about these minimal sets of periods for the Morse-Smale diffeomorphisms on orientable compact surfaces of genus 0, 1, 2 and 3. Additionally we give an algorithm which allows to study these minimal sets of periods for the Morse-Smale diffeomorphisms on orientable compact surfaces of arbitrary genus.