

Contents

Michael Robert Herman, 1942–2000	<i>page 3</i>
<i>Fathi, A. and Yoccoz, J.-C.</i>	
L^2 regularity of measurable solutions of a finite-difference equation of the circle	7
<i>Herman, M. R.</i>	
On Herman’s theorem for ergodic, amenable group extensions of endomorphisms	13
<i>Aaronson, J. and Weiss, B.</i>	
Lyapunov exponents with multiplicity 1 for deterministic products of matrices	25
<i>Bonatti, C. and Viana, M.</i>	
Remarks on stability and diffusion in high-dimensional Hamiltonian systems and partial differential equations	61
<i>Bourgain, J.</i>	
Stable manifolds and the Perron–Irwin method	89
<i>Chaperon, M.</i>	
C^2 densely the 2-sphere has an elliptic closed geodesic	125
<i>Contreras, G. and Oliveira, F.</i>	
Further rigidity properties of conformal Anosov systems	155
<i>de la Llave, R.</i>	

On some approximation of the 3D Euler system	173
<i>Dinaburg, E. I. and Sinai, Ya G.</i>	
Lyapunov 1-forms for flows	181
<i>Farber, M., Kappeler, T., Latschev, J. and Zehnder, E.</i>	
Constructions in elliptic dynamics	207
<i>Fayad, B. and Katok, A.</i>	
Démonstration du ‘théorème d’Arnold’ sur la stabilité du système planétaire (d’après Herman)	251
<i>Féjoz, J.</i>	
Sur le théorème de Bertrand (d’après Michael Herman)	313
<i>Féjoz, J. et Kaczmarek, L.</i>	
Commutators and diffeomorphisms of surfaces	321
<i>Gambaudo, J.-M. and Ghys, É.</i>	
Wandering domains and random walks in Gevrey near-integrable systems	349
<i>Marco, J.-P. and Sauzin, D.</i>	
Examples of Aubry sets	397
<i>Mather, J. N.</i>	
New phenomena associated with homoclinic tangencies	455
<i>Newhouse, S. E.</i>	
On holomorphic critical quasi-circle maps	469
<i>Petersen, C. L.</i>	
KAM theorem for Gevrey Hamiltonians	483
<i>Popov, G.</i>	
Convergent transformations into a normal form in analytic Hamiltonian systems with two degrees of freedom on the zero energy surface near degenerate elliptic singularities	517
<i>Rüssman, H.</i>	

Contents vii

Sur les structures de Poisson singulières 563
Stolovitch, L.

**A remark on Stable manifolds and the Perron-Irwin
method** 595
Chaperon, M.