

Cambridge University Press
0521860687 - Dynamical Systems: Michael Herman Memorial Volume
A. Fathi and J.-C. Yoccoz
Frontmatter
[More information](#)

Dynamical Systems

Dynamical Systems
Michael Herman Memorial Volume

A. FATHI
Ecole Normale Supérieure de Lyon

J.-C. YOCCOZ
Collège de France



Cambridge University Press
0521860687 - Dynamical Systems: Michael Herman Memorial Volume
A. Fathi and J.-C. Yoccoz
Frontmatter
[More information](#)

CAMBRIDGE UNIVERSITY PRESS
Cambridge, New York, Melbourne, Madrid, Cape Town, Singapore, São Paulo
Cambridge University Press
The Edinburgh Building, Cambridge CB2 2RU, UK
Published in the United States of America by Cambridge University Press, New York

www.cambridge.org
Information on this title: www.cambridge.org/9780521860680

© Cambridge University Press 2004, 2006

This publication is in copyright. Subject to statutory exception
and to the provisions of relevant collective licensing agreements,
no reproduction of any part may take place without
the written permission of Cambridge University Press.

First published as *Ergodic Theory and Dynamical Systems* **24**(5) 2004
This edition published 2006

Printed in the United Kingdom at the University Press, Cambridge

A catalogue record for this publication is available from the British Library

ISBN-13 978-0-521-86068-0 hardback
ISBN-10 0-521-86068-7 hardback

Cambridge University Press has no responsibility for the persistence or accuracy of URLs
for external or third-party internet websites referred to in this publication, and does not
guarantee that any content on such websites is, or will remain, accurate or appropriate.

All material contained within the CD-ROM is protected by copyright and other intellectual
property laws. The customer acquires only the right to use the CD-ROM and does
not acquire any other rights, express or implied, unless these are stated explicitly
in a separate licence.

To the extent permitted by applicable law, Cambridge University Press is not liable for
direct damages or loss of any kind resulting from the use of this product or from errors
or faults contained in it, and in every case Cambridge University Press's liability
shall be limited to the amount actually paid by the customer for the product.

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
<i>Stolovitch, L.</i>	
A remark on Stable manifolds and the Perron-Irwin method	595
<i>Chaperon, M.</i>	