

Astérisque

AST

**International conference on dynamical systems in
mathematical physics - Pages préliminaires**

Astérisque, tome 40 (1976), p. 1-2

[<http://www.numdam.org/item?id=AST_1976__40__1_0>](http://www.numdam.org/item?id=AST_1976__40__1_0)

© Société mathématique de France, 1976, tous droits réservés.

L'accès aux archives de la collection « Astérisque » (<http://smf4.emath.fr/Publications/Asterisque/>) implique l'accord avec les conditions générales d'utilisation (<http://www.numdam.org/conditions>). Toute utilisation commerciale ou impression systématique est constitutive d'une infraction pénale. Toute copie ou impression de ce fichier doit contenir la présente mention de copyright.

NUMDAM

Article numérisé dans le cadre du programme
Numérisation de documents anciens mathématiques
<http://www.numdam.org/>

INTRODUCTION

This volume contains lectures and articles presented at the International Conference on Dynamical Systems in Mathematical Physics, held at Rennes from September 14 to September 21, 1975. The organizing committee was composed of G. Gallavotti, M. Keane and D. Ruelle. Financial support for the conference was given by the following organisms :

Société Mathématique de France

E.R.A. 250 du C.N.R.S.

Université de Rennes

Ville de Rennes

Our thanks are due to them for their interest. We should also like to thank Didier Pinchon, who efficiently handled all organizational problems, the Ecole Supérieure d'Electricité, on whose premises the conference was held, and especially Mr. and Mrs. Juhel of that institution for the excellent care of food and lodging. Our thanks also to the secretaries, Mieke Keane and Josette Mouëzy, without whom the conference would not have been possible.

Rennes, November 1976

M. Keane

TABLE OF CONTENTS

ADELMAN O.	Cats' tales.....	3
AOKI N.	Ergodic automorphisms of compact metric groups are isomorphic to Bernoulli shifts.....	5
BOWEN R.	Unique ergodicity for foliations.....	11
EBERLEIN E.	On topological entropy of semigroups of commuting transformations.....	17
EMCH G.	Algebraic K-flows.....	63
FIELD M.	Singularity theory and equivariant dynamical systems.....	67
FRANKS J.M.	Homology and the Zeta function for diffeomorphisms.....	79
GALLAVOTTI G.	Classical KMS condition and Tomita-Takesaki theory.....	89
GOLDSTEIN S.	Spectrum of measurable flows.....	95
GUERRA F.	Introduction to stochastic field theory.....	99
HERMAN M.R.	Sur les mesures invariantes.....	103
JAFFE A.	Problèmes ergodiques dans la théorie quantique des champs.....	105
KUBO I.	The motion of disks in a torus.....	113
LANFORD O.E.III	On a derivation of the Boltzmann equation....	117
LIND D.A.	Ergodic automorphisms of compact groups.....	139
MANNING A.	Topological entropy and homology.....	141
MICHEL P.	Minimal sets generated by a substitution of non constant length.....	143

MISIUREWICZ M.	A short proof of the variational principle for a $\mathbb{Z}_+^N$ action on a compact space.....	147
PALM G.	A common generalization of topological and measure-theoretic entropy.....	159
RUELLE D.	Zeta functions and statistical mechanics.....	167
SHIOKAWA I.	Ergodic properties of a complex continued fraction transformation.....	177
SLAWNY J.	Phase transitions in ferromagnetic spin systems at low temperatures.....	181
WALTERS P.	A generalized Ruelle Perron-Frobenius theorem and some applications.....	183