## Preparation of Manuscripts

The authors are required to prepare the manuscripts in English, French or German and submit them with extra two copies to

Editor in Chief, Osaka Journal of Mathematics, Department of Mathematics, Graduate School of Science, Osaka University, 1-1 Machikaneyama-cho, Toyonaka, Osaka 560, Japan

Manuscripts should be typed and legible. Those prepared on TEX should be typeset in 12 point fonts with enough line intervals and margins. The authors are required to observe the following style rules:

- 1. Abstract or summary should not be attached. The author's address together with his (or her) affiliation is to be written on the last page after the references.
- 2. In the margin of the first page of the manuscript, write a proposed running head.
- 3. The references should be quoted by numbers, not by the abbreviations of the names or titles. In the Reference the entries should be written as in the next examples:
  - [1] H.F. Baker: On finite groups, Canad. J. Math. 25 (1973), 35-48.
  - [2] C.M. Davis: Group Theory, Springer, Berlin-Heidelberg-New York, 1965.
- 4. Theorem, Proposition, Lemma, Corollary should be written as **Theorem**, **Proposition**, **Lemma**, **Corollary** in the bold face, while Definition, Notation, Remark, Example, Acknowledgement should be written in romans as Definition, Notation, Remark, Example, Acknowledgement with small capitals from the second letter on Proof is written in romans.
- 5. Figures should be drawn in black ink and prepared in separate sheets with adequate numbering.

The authors will be required to make the marking of special letters such as boldface, script, German, Greek letters, etc. following the instruction to be mailed after their articles are accepted for publication by the editorial board.

## CONTENTS

KANENOBU, T. and MARUMOTO, Y.: Unknotting and fusion numbers of	
ribbon 2-knots.	525
FUJII, M. and KOJIMA, S.: Flexible boundaries in deformations of hyper-	
bolic 3-manifolds.	541
IBÁÑEZ, R.: Coeffective-Dolbeault cohomology of compact indefinite	
Kähler manifolds.	553
LOPEZ, R.: Surfaces of constant mean curvature with boundary in a sphere.	573
Рогомво, A.: Sur les hypersurfaces à courbure moyenne constante de	
l'espace hyperbolique	579
MATSUMURA, A. and MEI, M.: Nonlinear stability of viscous shock profile	
for a non-convex system of viscoelasticity	589
KOMATSU, Y., KOTANI, S. and MATSUMURA, A.: A period-doubling bifur-	
cation for the duffing equation.	605
ELWORTHY, K.D. and MA, ZM.: Vector fields on mapping spaces and	
related Dirichlet forms and diffusions	629
KAMAE, T. and KEANE, M.: A simple proof of the ratio ergodic theorem	653
MASAOKA, H. and SEGAWA, S.: Harmonic dimension of covering surfaces	
and minimal fine neighborhood.	659
WEN, ZX. and WEN, ZY.: Structure of a class of polynomial maps with	
invariant factors.	673
KAWATA, S.: On Auslander-Reiten components and simple modules for finite group algebras.	681
MORIMOTO, M. and SUMIOKA, T.: Generalizations of theorems of fuller	689
KARINO, K.: Non-existence of elliptic curves with small conductors over	
imaginary quadratic fields	703
ITO, H.: On automorphisms of supersingular K3 surfaces.	717
GURJAR R.V., PRADEEP C.R. and SHASTRI A.R.: On Rationality of loga-	
rithmic Q-homology planes-II.	725

TEX typesetting & printed by PLAIN corporation at Shinjuku office of Tokyo