

Annales Mathematicae Silesianae

23 (2009)

WYDAWNICTWO UNIWERSYTETU ŚLĄSKIEGO
KATOWICE 2010

„Annales Mathematicae Silesianae” is published by the Silesian University. The journal publishes original research papers in pure and applied mathematics.

EDITORIAL OFFICE

Instytut Matematyki
Uniwersytet Śląski
ul. Bankowa 14
40-007 Katowice
Poland



NR 2769

Annales Mathematicae Silesianae

23 (2009)

WYDAWNICTWO UNIwersYTETU ŚLĄSKIEGO
KATOWICE 2010



Redaktor serii: Matematyka

Tomasz Dłotko

KOMITET REDAKCYJNY: **Karol Baron, Aleksander Błaszczyk,
Wojciech Chojnacki, Jan Cholewa,
Tomasz Dłotko, Roman Ger,
Zygfryd Kominek, Marek Kowalski,
Władysław Kulpa, Olga Macedońska-Nosalska,
Janusz Matkowski, Jerzy Mioduszewski,
Władysław Narkiewicz, Ryszard Rudnicki,
Maciej Skwarczyński, Kazimierz Szymiczek**

SEKRETARZ REDAKCJI: **Justyna Sikorska**

Contents

Annual lectures dedicated to the memory of Professor Andrzej Lasota (<i>Roman Ger</i>)	7
Professor Andrzej Lasota (1932–2006) (<i>Ryszard Rudnicki</i>)	9
MICHAEL C. MACKEY: Exploring the World with Mathematics	11
MOHAMED AKKOUCI: Well-posedness of the fixed point problem for certain asymptotically regular mappings	43
ELIZA JABIOŃSKA: Jensen convex functions bounded above on nonzero Christensen measurable sets	53
ZYGFRYD KOMINEK: On a Jensen–Hosszú equation I	57
JAN LIGEŻA: Existence of positive periodic solutions of some differen- tial equations of order n ($n \geq 2$)	61
ADAM WORYNA: The group of balanced automorphisms of a spheri- cally homogeneous rooted tree	83
Report of Meeting. The Ninth Katowice–Debrecen Winter Seminar on Functional Equations and Inequalities, Będlewo (Poland), February 4–7, 2009	103

Information for Authors

Submission of a manuscript implies that the work described has not been published before, that it is not under consideration for publication elsewhere, and that it will not be published elsewhere unless it has been rejected by the editors of “*Annales Mathematicae Silesianae*”.

Manuscript should be written in English and sent either in hardcopy by regular mail, or electronically via e-mail. In the first case Authors are asked to send their papers in duplicate to the Editorial Office: Instytut Matematyki, Uniwersytet Śląski, Bankowa 14, 40-007 Katowice, Poland, and in the latter case – to send a pdf file as an e-mail attachment to: annales@math.us.edu.pl

An abstract of not more than 15 lines should describe the main results of the paper. Included into the footnotes of the first page should be the Mathematics Subject Classification (2000). Key words and phrases may follow. It is necessary to indicate an abbreviated title which will be used as a running head (up to 60 characters including spaces). Figures should be prepared in a form suitable for direct reproduction. Sending PS, EPS, PCX files will be most helpful. References should be numbered and arranged in alphabetical order, or in the case of the same author, chronologically. The style and abbreviations should follow the “Mathematical Reviews”.

Authors affiliations, including complete postal address and e-mail addresses, should be given at the end of the manuscript.

On acceptance of the paper Authors will be asked to send the final version of the paper as the \LaTeX and pdf files to the address: annales@math.us.edu.pl

Recommended font size of manuscripts is 11pt, line length 126 mm, page height 192 mm. The Authors are kindly asked to match their typographical style to that used in the last issue of our journal.

Copies of all manuscripts should be retained by the Authors. In case of several coauthors indicate one author as the corresponding author. The Author will obtain one set of proofs for corrections after acceptance of the manuscript.

After publishing of the volume all the papers will be available online on the pages of the Silesian Digital Library www.sbc.org.pl. Moreover, all the indices of “*Annales Mathematicae Silesianae*” and some more information on our journal are accessible on the homepage:

<http://www.math.us.edu.pl/annales>

Projektant okładki

Gerard Labus

Redaktor

Barbara Todos-Burny

Redaktor techniczny

Barbara Arenhövel

Copyright © 2010

by Wydawnictwo Uniwersytetu Śląskiego

Wszelkie prawa zastrzeżone

Wydawca

Wydawnictwo Uniwersytetu Śląskiego

ul. Bankowa 12B, 40-007 Katowice

www.wydawnictwo.us.edu.pl

e-mail: wydawus@us.edu.pl

Wydanie I. Nakład: 150 + 50 egz. + 25 nadb. Ark. druk. 7,5. Ark.
wyd. 9,0. Papier offset. kl. III, 90 g

Cena 14 zł

Druk i oprawa: PPHU TOTEM s.c. M. Rejnowski, J. Zamiara
ul. Jacewska 89, 88-100 Inowrocław

ISSN 0208-6336

ISSN 0860-2107

(wersja drukowana)

ISSN 2391-4238

(wersja elektroniczna)

Cena 14 zł
(+ VAT)

ISSN 0208-6336
ISSN 2391-4238