

ANALYSIS

INTERNATIONAL MATHEMATICAL JOURNAL
OF ANALYSIS AND ITS APPLICATIONS

EDITOR-IN-CHIEF

F. Schulz, Ulm

EDITORIAL BOARD

V. Bögelein, Erlangen

M. Bohner, Rolla

A. Dall'Acqua, Ulm

R. Farwig, Darmstadt

B. Fritzsche, Leipzig

H.-Ch. Grunau, Magdeburg

Q. Han, Notre Dame

W. Jäger, Heidelberg

F. Klopp, Villetaneuse

S. Rogosin, Minsk

R. Schätzle, Tübingen

Y. Tonegawa, Sapporo

DE GRUYTER

ABSTRACTED/INDEXED IN Baidu Scholar · Celdes · CNKI Scholar (China National Knowledge Infrastructure) · CNPIEC · EBSCO (relevant databases) · EBSCO Discovery Service · Elsevier: SCOPUS · Genamics JournalSeek · Google Scholar · J-Gate · JournalTOCs · Mathematical Reviews (MathSciNet) · Naviga (Softweco) · Primo Central (ExLibris) · ReadCube · ResearchGate · SCImago (SJR) · Sherpa/RoMEO · Summon (Serials Solutions/ProQuest) · TDOne (TDNet) · WorldCat (OCLC) · Zentralblatt Math (zbMATH)

ISSN 0174-4747 · e-ISSN 2196-6753

All information regarding notes for contributors, subscriptions, Open access, back volumes and orders is available online at www.degruyter.com/anly.

RESPONSIBLE EDITOR Friedmar Schulz, Universität Ulm, Institut für Analysis, 89069 Ulm, Germany.
Email: friedmar.schulz@uni-ulm.de

JOURNAL MANAGER Holger Kleessen, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany.
Tel.: +49 (0)30 260 05-348, Fax: +49 (0)30 260 05-184
Email: holger.kleessen@degruyter.com

RESPONSIBLE FOR ADVERTISEMENTS Claudia Neumann, De Gruyter, Genthiner Straße 13, 10785 Berlin, Germany.
Tel.: +49 (0)30 260 05-226, Fax: +49 (0)30 260 05-264
Email: anzeigen@degruyter.com

© 2016 Walter de Gruyter GmbH, Berlin/Boston

TYPESETTING Dimler & Albroscheit, Münchenberg

PRINTING Franz X. Stücker Druck und Verlag e.K., Ettenheim

Printed in Germany



Contents

Robert Bil, Hartmut Laue

Investigations about the Euler–Mascheroni constant and harmonic numbers — 223

Kenneth S. Williams

A class of subsums of Euler’s sum — 231

Ravi P. Agarwal, Abdullah Özbekler

Lyapunov type inequalities for second-order differential equations with mixed nonlinearities — 245

László Horváth, Khuram Ali Khan, Josip Pečarić

Cyclic refinements of the discrete and integral form of Jensen’s inequality with applications — 253

Sergei M. Sitnik, Khaled Mehrez

Proofs of some conjectures on monotonicity of ratios of Kummer, Gauss and generalized hypergeometric functions — 263

Hind Al Baba, Chérif Amrouche, Ahmed Rejaiba

The time-dependent Stokes problem with Navier slip boundary conditions on L^p -spaces — 269

Hassan Jaber

Mountain pass solutions for perturbed Hardy–Sobolev equations on compact manifolds — 287

