

Canadian
Mathematical

Bulletin

canadien de
mathématiques

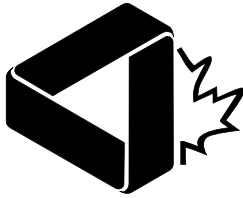
2024, 67/3
September / septembre



Canadian Mathematical Society
Société mathématique du Canada



CAMBRIDGE
UNIVERSITY PRESS



CANADIAN MATHEMATICAL BULLETIN

BULLETIN CANADIEN DE MATHÉMATIQUES

EDITORS-IN-CHIEF / RÉDACTEURS-EN-CHEF

Antonio Lei & Javad Mashreghi

Département de mathématiques et de statistique

Université d'Ottawa & Université Laval

cmb-editors@cms.math.ca / bcm-redacteurs@smc.math.ca

ASSOCIATE EDITORS / RÉDACTEURS ASSOCIÉS

Fabrizio Andreatta
Università degli Studi di Milano

Lia Bronsard
McMaster University

Jingyi Chen
University of British Columbia

Michelle Delcourt
Toronto Metropolitan University

Ailana Fraser
University of British Columbia

Alex Iosevich
University of Rochester

Joel Kamnitzer
McGill University

Monika Ludwig
TU Wien

Robert Osburn
University College Dublin

Malabika Pramanik
University of British Columbia

Alistair Savage
University of Ottawa

Shawn XianFu Wang
University of British Columbia

Hans Boden
McMaster University

Lucy Campbell
Carleton University

Benoit Collins
Kyoto University

Shaun Fallat
University of Regina

Philippe Gille
CNRS & Université Claude-Bernard-Lyon-1

Dmitry Jakobson
McGill University

Chris Kapulkin
Western University

Rahim Moosa
University of Waterloo

Dmitry Panchenko
University of Toronto

Frédéric Rochon
Université du Québec à Montréal

Valentino Tosatti
McGill University

Deping Ye
Memorial University

Kathrin Bringmann
University of Cologne

Guillaume Chapuy
Université Paris-Diderot

Octav Cornea
Université de Montréal

Ilijas Farah
York University

Slim Ibrahim
University of Victoria

Michael Jury
University of Florida

Matilde Lalin
Université de Montréal

Monica Nevins
University of Ottawa

Julia Plavnik
Indiana University - Bloomington

William Ross
University of Richmond

Liam Watson
University of British Columbia

Yingfei Yi
University of Alberta

© Canadian Mathematical Society / Société mathématique du Canada, 2024

All rights reserved / tous droits réservés

Suite 209, 1725 St. Laurent Blvd., Ottawa, ON K1G 3V4

ISSN 0008-4395 (Print / imprimé), 1496-4287 (Online / électronique)

Printed by Sheridan, a CJK Group Company.

The geometric figure on the cover, a four-dimensional polytope, was redrawn from the inside cover page of the celebrated book 'Regular Polytopes' by Harold Scott MacDonal^d Coxeter (1907–2003), one of the greatest geometers of the 20th century. Coxeter, a Fellow of the Royal Society of Canada and a Fellow of the Royal Society (London), joined the University of Toronto in 1936 and worked there enthusiastically for 60 years. Since 1978, the Canadian Mathematical Society has awarded the Coxeter-James Prize in his honor.

La figure géométrique sur la couverture, un polytope en dimension quatre, a été reprise du plat intérieur du célèbre ouvrage 'Regular Polytopes' de Harold Scott MacDonal^d Coxeter (1907–2003), l'un des plus grands géomètres du XX^e siècle. Membre de la Société royale du Canada et de la Royal Society (Londres), H.M.S. Coxeter s'est joint au corps professoral de l'Université de Toronto en 1936, où il a travaillé avec enthousiasme pendant 60 ans. Depuis 1978, la Société mathématique du Canada décerne le prix Coxeter-James en son honneur.

533	Nonlinear Beltrami equation: lower estimates of Schwarz lemma's type	<i>Igor Petkov, Ruslan Salimov, and Mariia Stefanchuk</i>
544	On the Pontrjagin classes of spray manifolds	<i>Zhongmin Shen and Runzhong Zhao</i>
554	Irreducible modules of modular Lie superalgebras and super version of the first Kac–Weisfeiler conjecture	<i>Bin Shu</i>
574	A rigidity result for the product of spheres	<i>Pak Tung Ho</i>
582	Equal-Sum-Product problem II	<i>Maciej Zakarczemny</i>
593	Tree structure of spectra of spectral Moran measures with consecutive digits	<i>Cong Wang and Feng-Li Yin</i>
611	On the root of unity ambiguity in a formula for the Brumer–Stark units	<i>Matthew H. Honnor</i>
624	On the Extension of Bounded Holomorphic Maps from Gleason Parts of the Maximal Ideal Space of H^∞	<i>Alexander Brudnyi</i>
633	How to determine a curve singularity	<i>J. Elias</i>
648	A rigid analytic proof that the Abel–Jacobi map extends to compact-type models	<i>Taylor Dupuy and Joseph Rabinoff</i>
655	Integral mean estimates for univalent and locally univalent harmonic mappings	<i>Suman Das and Anbareeswaran Sairam Kaliraj</i>
670	A characterization of random analytic functions satisfying Blaschke-type conditions	<i>Yongjiang Duan, Xiang Fang, and Na Zhan</i>
680	Relations for quadratic Hodge integrals via stable maps	<i>Georgios Politopoulos</i>
687	Borel reducibility of equivalence relations on ω_1	<i>Riccardo Camerlo</i>
701	Nowhere constant families of maps and resolvability	<i>István Juhász and Jan van Mill</i>
706	Some examples of noncommutative projective Calabi–Yau schemes	<i>Yuki Mizuno</i>
727	Integral equivariant cohomology of affine Grassmannians	<i>David Anderson</i>
742	Theoretical study of a φ -Hilfer fractional differential system in Banach spaces	<i>Oualid Zentar, Mohamed Ziane, and Mohammed Al Horani</i>
760	The degree one Laguerre–Pólya class and the shuffle-word-embedding conjecture	<i>James E. Pascoe and Hugo J. Woerdeman</i>
768	Hausdorff operators on some classical spaces of analytic functions	<i>Huayou Xie and Qingze Lin</i>
781	On the complexity of extending the convergence domain of Newton's method under the weak majorant condition	<i>Ioannis K. Argyros and, Santhosh George</i>

796	Moments of the central L -values of the Asai lifts	<i>Wenzhi Luo</i>
805	A class of Hessian quotient equations in de Sitter space	<i>Jinyu Gao, Guanghan Li, and Kuicheng Ma</i>
822	Linear independence of series related to the Thue–Morse sequence along powers	<i>Michael Coons and Yohei Tachiya</i>
833	Ideals with componentwise linear powers	<i>Takayuki Hibi and Somayeh Moradi</i>
842	Existence of singular rotationally symmetric gradient Ricci solitons in higher dimensions	<i>Kin Ming Hui</i>
860	Li coefficients and the quadrilateral zeta function	<i>Kajtaž H. Bllaca, Kamel Mazhouda, and Takashi Nakamura</i>
872	Almost sure convergence of the L^4 norm of Littlewood polynomials	<i>Yongjiang Duan, Xiang Fang, and Na Zhan</i>