

ISSN 0027-7630

# NAGOYA MATHEMATICAL JOURNAL

Volume 250

June 2023

Published by  
Cambridge University Press on behalf of  
Foundation Nagoya Mathematical Journal



# NAGOYA MATHEMATICAL JOURNAL

## Editors

Banica, Valeria  
*Sorbonne Université*

Hesselholt, Lars (*Managing Editor*)  
*Nagoya University and  
University of Copenhagen*

Hirachi, Kengo  
*University of Tokyo*

Honda, Ko  
*University of California, Los Angeles*

Iyama, Osamu  
*Nagoya University*

Kedlaya, Kiran  
*University of California, San Diego*

Mathew, Akhil  
*University of Chicago*

Russ, Emmanuel  
*Université de Grenoble*

Tanimoto, Sho  
*Nagoya University*

## Associate Editors

Bona, Jerry L.  
*University of Illinois at Chicago*

Fukaya, Kenji  
*Simons Center for Geometry and Physics, Stony Brook*

Kondo, Shigeyuki  
*Nagoya University*

Liu, Ruochuan  
*Peking University*

Ma, Linqun  
*Purdue University*

Mori, Shigefumi  
*RIMS, Kyoto University*

Mukai, Shigeru  
*Chinese Academy of Sciences*

Noguchi, Junjiro  
*University of Tokyo*

Shoji, Toshiaki  
*Tongji University, Shanghai*

Tamagawa, Akio  
*RIMS, Kyoto University*

Toda, Yukinobu  
*IPMU, University of Tokyo*

# NAGOYA MATHEMATICAL JOURNAL

Volume 250

June 2023

## CONTENTS

---

<b>Hassett, B. and Tschinkel, Y.:</b> Torsors and stable equivariant birational geometry . . . . .	275
<b>Booher, J. and Cais, B.:</b> Iwasawa theory for $p$ -torsion class group schemes in characteristic $p$ . . . . .	298
<b>Cortissoz, J. C.:</b> An observation on the Dirichlet problem at infinity in Riemannian cones . . . . .	352
<b>Bernasconi, F. and Stigant, L.:</b> Semiampleness for Calabi–Yau surfaces in positive and mixed characteristic . . . . .	365
<b>Hoshi, Y.:</b> Frobenius-affine structures and Tango curves . . . . .	385
<b>Eyral, C. and Oka, M.:</b> On the Milnor fibration of certain Newton degenerate functions . . . . .	410
<b>Nikolaev, N.:</b> Exact solutions for the singularly perturbed Riccati equation and exact WKB analysis . . . . .	434
<b>Muller, J.:</b> Cohomology of the Bruhat–Tits strata in the unramified unitary Rapoport–Zink space of signature $(1, n - 1)$ . . . . .	470
<b>Mann, L.:</b> Normal and irreducible adic spaces, the openness of finite morphisms, and a Stein factorization . . . . .	498
<b>Goldston, D. A. and Suriajaya, A. I.:</b> On an average Goldbach representation formula of Fujii . . . . .	511
<b>Liu, J.:</b> Annihilators and dimensions of the singularity category . . . . .	533