

AMERICAN JOURNAL OF MATHEMATICS

EDITED BY

NITYA R. KITCHLOO
JOHNS HOPKINS UNIVERSITY

WILLIAM P. MINICOZZI II
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FREYDOON SHAHIDI
PURDUE UNIVERSITY

CHRISTOPHER SOGGE
JOHNS HOPKINS UNIVERSITY

WITH THE COOPERATION OF

C. BIRKAR
S. KLAINERMAN
K. SMITH
M. ZWORSKI

E. FRIEDLANDER
B. SHIFFMAN
T. TAO

H. HIDA
V. SHOKUROV
S.-T. YAU

Published under the auspices of
JOHNS HOPKINS UNIVERSITY

VOLUME 146, NUMBER 4
AUGUST 2024



JOHNS HOPKINS
UNIVERSITY PRESS