

CONTENTS

SURVEY ARTICLES

Jungkai A. CHEN — Three dimensional divisorial contractions	1
Yujiro KAWAMATA — Variation of mixed Hodge structures and the positivity for algebraic fiber spaces	27

RESEARCH ARTICLES

Wan Keng CHEONG — From GW invariants of symmetric product stacks to relative invariants of threefolds	59
Wu-yen CHUANG — ADHM sheaf theory and wallcrossing	83
Yoshinori GONGYO — Remarks on the non-vanishing conjecture	107
Christopher D. HACON — Singularities of pluri-theta divisors in Char $p > 0$	117
Jun-Muk HWANG — Dual cones of varieties of minimal rational tangents	123
JongHae KEUM — $\mathbb{Q}$ -homology projective planes with nodes or cusps	143
Yongnam LEE and Francesco POLIZZI — Deformations of product-quotient surfaces and reconstruction of Todorov surfaces via $\mathbb{Q}$ -Gorenstein smoothing	159
Keiji OGUSO — Free automorphisms of positive entropy on smooth Kähler surfaces	187
Miles REID — Gorenstein in codimension 4: the general structure theory	201