

CONTENTS

Norimichi HIRANO, Kazuo KIDO and Wataru TAKAHASHI , The existence of nonexpansive retractions in Banach spaces	1
Katsuhiro KOMIYA , Equivariant cobordism, vector elds, and the Euler characteristic .	9
Takao FUJITA , Zariski decomposition and canonical rings of elliptic threefolds	19
Takashi SUZUKI , Inverse problems for heat equations on compact intervals and on circles, I	39
Toyokazu HIRAMATSU, Noburo ISHII and Yoshio MIMURA , On indenite modular forms of weight one	67
Shizuo KAMO , Limits on $P(\omega)/finite$	85
Takashi FUKUDA and Keiichi KOMATSU , On Z_p -extensions of real quadratic elds	95
Osamu HATORI , Functional calculus for certain Banach function algebras	103
Tsutomu YASUI , Enumerating embeddings of homologically $(k-1)$ -connected n -manifolds in Euclidean $(2n-k)$ -space	113
Takakazu SATOH , Dierential operators and congruences for Siegel modular forms of degree two	127
Shigeaki TSUYUMINE , Rings of automorphic forms which are not Cohen-Macaulay, I .	147
Tetsuya ASAI , Some arithmetic on Dedekind sums	163