

## CONTENTS

<b>Nobuyuki KENMOCHI</b> , Free boundary problems for a class of nonlinear parabolic equations: An approach by the theory of subdifferential operators .....	1
<b>Masatsugu NAGATA, Goro NISHIDA and Hiroshi TODA</b> , Segal-Becker theorem for $KR$ -theory .....	15
<b>Norimichi HIRANO</b> , Nonlinear ergodic theorems and weak convergence theorems .....	35
<b>Steven ZUCKER</b> , Remarks on a theorem of Fujita .....	47
<b>Kiyoshi IKESHOJI</b> , A generalization of Roberts-Tannaka duality theorem .....	55
<b>Shin-ichiro KAKUTANI</b> , Some examples of pseudofree $S^1$ -actions on homotopy $(4m+1)$ -spheres .....	61
<b>Hiroshi NAKAZATO</b> , Closed $*$ -derivations on compact groups .....	83
<b>Henryk IWANIEC</b> , On the Brun-Titchmarsh theorem .....	95
<b>Shigeru KANEMITSU, R. SITA RAMA CHANDRA RAO and A. SIVA RAMA SARMA</b> , Some sums involving Farey fractions I .....	125
<b>Kiyoshi MOCHIZUKI</b> , Asymptotic wave functions and energy distributions for long-range perturbations of the d'Alambert equation .....	143
<b>Eric Alan GERBER and Max L. WEISS</b> , Interpolation, trivial and non-trivial homomorphisms in $H^\infty$ .....	173