

ISSN 0030-6126

OSAKA JOURNAL OF MATHEMATICS

EDITED BY

N. IKEDA

[Y. MATSUSHIMA]

H. MORIMOTO

H. NAGAO

Y. NAKAI

J. TAO

WITH THE COOPERATION OF

S. ARAKI

M. FUKUSHIMA

M. HARADA

T. IKEGAMI

K. ISHI

[H. KUMANO-GO]

S. MURAKAMI

M. NAKAOKA

N. NINOMIYA

H. OZEKI

K. SHIBATA

M. TAKEUCHI

H. TANABE

T. WATANABE

Volume 20

1983

PUBLISHED JOINTLY BY THE

DEPARTMENTS OF MATHEMATICS

OSAKA UNIVERSITY AND OSAKA CITY UNIVERSITY

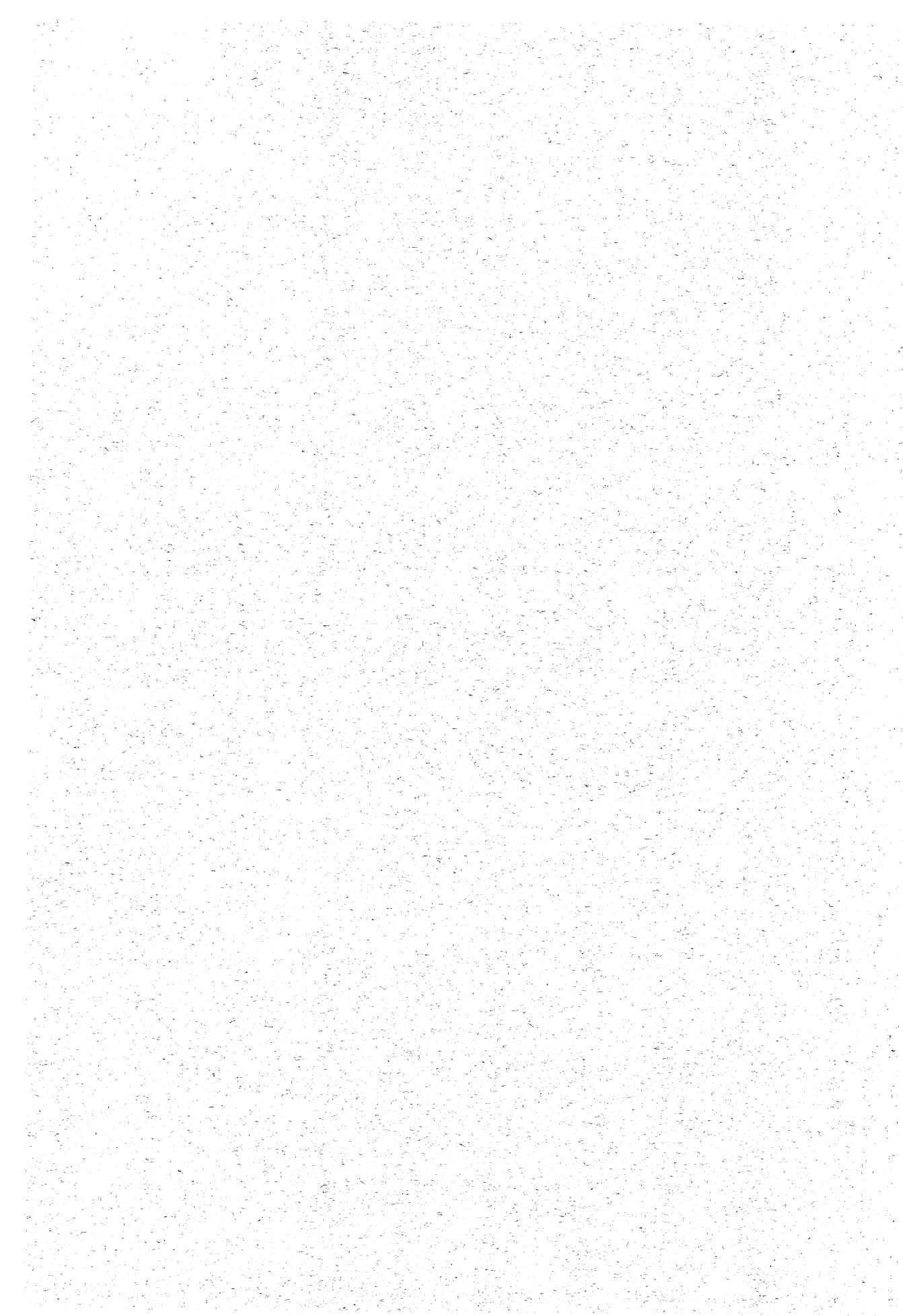
INDEX

- AKIYAMA, K.: 4-fold transitive permutation groups in which the stabilizer of four points in G has an orbit of length three. 747
- ASAI, T.: On the zeta functions of the varieties $X(w)$ of the split classical groups and the unitary groups. 21
- : Unipotent characters of SO_{2n}^+ , Sp_{2n} and SO_{2n+1} over F_q with small q 631
- ASASHIBA, H.: On the indecomposability of amalgamated sums. 701
- and SUMIOKA, T.: On Krull-Schmidt's theorem and the indecomposability of amalgamated sums. 321
- DORFMEISTER, J. and NEHER, E.: Isoparametric triple systems of algebra type. 145
- FURUYA, K.: Analyticity of solutions of quasilinear evolution equations II. 217
- HANO, J.: Examples of projective manifolds not admitting Kähler metric with constant scalar curvature. 789
- HARADA, M.: A characterization of QF-algebras. 1
- HILL, D.A.: Quasi-projective modules over hereditary Noetherian prime rings. 767
- HIRAMINE, Y.: On semi-field planes of even order. 645
- : Automorphisms of p -groups of semifield type. 735
- IKEGAMI, T.: On the simplicial cone of superharmonic functions in a resolute compactification of a harmonic space. 881
- IMAYOSHI, Y.: Universal covering spaces of certain quasi-projective algebraic surfaces. 581
- INOUE, T.: Sum of hollow modules. 331
- KAKUTANI, S.: Equivariant span of the unit spheres in representation spaces. 439
- KASUE, A.: A note on Kähler manifolds of nonnegative holomorphic bisectional curvature. 469
- KATO, T.: On the isomorphism theorem of the meromorphic function fields. 303
- KOISO, M.: On the finite solvability of Plateau's problem for extreme curve. 177
- : On the space of minimal surfaces with boundaries. 911
- KOMIYA, K.: Equivariant isotopies of semifree G -manifolds. 383
- : Equivariant immersions and embeddings of smooth G -manifolds. 553
- KU, H.-T., KU, M.-C. and MANN, L.N.: Newman's theorem for pseudo-submersions. 793

KU, M.-C., MANN, L.N. and KU, H.-T.: Newman's theorem for pseudo-submersions.	793
MANN, L.N., KU, H.-T. and KU, M.-C.: Newman's theorem for pseudo-submersions.	793
MATSUDA, T.: The Berry-Esseen bound for maximum likelihood estimates of translation parameter of truncated distribution.	185
_____: Asymptotic properties of posterior distributions in a truncated case.	307
MINAMI, H.: On equivariant J -homomorphism for involutions.	109
_____: On $Z/2$ - e -invariants.	539
_____: Correction to "On J_R -homomorphisms".	939
MORIMOTO, Y.: On hypoelliptic operators with multiple characteristics of odd order.	237
MURAYAMA, M.: On G -ANR's and their G -homotopy type.	479
NAGAI, H.: Impulsive control of symmetric Markov processes and quasi-variational inequalities.	863
NAGATOMO, K.: On a construction of null electromagnetic fields.	285
NAGURA, T.: On the normal bundles of S^2 minimally immersed into the unit spheres.	779
NAKAHARA, S.: On a generalization of semiperfect modules.	43
NAKAO, S.: On pathwise uniqueness and comparison of solutions of one-dimensional stochastic differential equations.	197
NEHER, E. and DORFMEISTER, J.: Isoparametric triple systems of algebra type.	145
NINOMIYA, N.: On the balayage constant for logarithmic potentials....	205
NOBUSAWA, N.: Orthogonal groups and symmetric sets.	5
_____: Some structure theorems on pseudo-symmetric sets.	727
NOMURA, Y.: Self homotopy equivalences of Stiefel manifolds $W_{n,2}$ and $V_{n,2}$	79
NOZAWA, R.: Duality in generalized homogeneous programming.	899
OCHIAI, M.: On Haken's theorem and its extension.	461
OKUYAMA, T. and TSUSHIMA, Y.: Local properties of p -block algebras of finite groups.	33
OSHIRO, K.: Semiperfect modules and quasi-semiperfect modules.	337
_____: Continuous modules and quasi-continuous modules.	681
_____: Projective modules over von Neumann regular rings have the finite exchange property.	695
OZAWA, S.: Point interaction potential approximation for $(-\Delta + U)^{-1}$ and eigenvalues of the Laplacian on wildly perturbed domain.	923
RAMAMOORTHI, R.V. and YAMADA, S.: On the union of compact statistical structures.	257

SUMIOKA, T. and ASASHIBA, H.: On Krull-Schmidt's theorem and the indecomposability of amalgamated sums.	321
SUMITOMO, T. and TANADAI, K.: Killing tensor fields on the standard sphere and spectra of $SO(n+1)/SO(n-1) \times SO(2)$ and $O(n+1)/O(n-1) \times O(2)$	51
SUWA, T.: Kupka-Reeb phenomena and universal unfoldings of certain foliation singularities.	373
SUZUKI, H.: Automorphism groups of multilinear maps.	659
TAKAHASHI, Y.: Shift with orbit basis and realization of one dimensional maps.	599
TANABE, H.: HITOSHI KUMANO-GO.	i
TANAKA, R.: On the stable James numbers of Thom complexes.	137
TANDAI, K. and SUMITOMO, T.: Killing tensor fields on the standard sphere and spectra of $SO(n+1)/SO(n-1) \times SO(2)$ and $O(n+1)/O(n-1) \times O(2)$	51
TSUJIMOTO, J.: On the asymptotic distribution of eigenvalues in an unbounded domain.	573
TSUSHIMA, Y.: A note on Cartan integers for p -solvable groups.	675
— and OKUYAMA, T.: Local properties of p -block algebras of finite groups.	33
UCHIDA, F.: Actions of special unitary groups on a product of complex projective spaces.	513
UCHIYAMA, K.: Correction to "On the growth of solutions of semi-linear diffusion equation with drift".	943
UNO, K.: Character correspondences in p -solvable groups.	713
VAN OYSTAEYEN, F.: On orders over graded Krull domains.	757
WATANABE, T.: An application of the iterated loop space theory to cohomology suspensions.	399
WILLIAMS, F.L.: Vanishing theorems for type $(0, q)$ cohomology of locally symmetric spaces II.	95
YAGI, A.: Differentiability of families of the fractional powers of self-adjoint operators associated with sesquilinear forms.	265
YAMADA, S. and RAMAMOORTHI, R.V.: On the union of compact statistical structures.	257
YOKOGAWA, K.: A pair of subalgebras in an Azumaya algebra.	9
YOSIMURA, Z. BP operations and homological properties of BP_*BP -comodules.	123
—: Localization of Eilenberg-McLane G -spaces with respect to homology theory.	521
YOTSUTANI, S.: Stefan problems with the unilateral boundary condition on the fixed boundary II.	803

- YOTSUTANI, S.: Stefan problems with the unilateral boundary condition
on the fixed boundary III. 845



CONTENTS

ASASHIBA, H.: On the indecomposability of amalgamated sums.	701
UNO, K.: Character correspondences in p -solvable groups.	713
NOBUSAWA, N.: Some structure theorems on pseudo-symmetric sets.	727
HIRAMINE, Y.: Automorphisms of p -groups of semifield type.	735
AKIYAMA, K.: 4-fold transitive permutation groups in which the stabilizer of four points in G has an orbit of length three.	747
VAN OYSTAEYEN, F.: On orders over graded Krull domains.	757
HILL, D.A.: Quasi-projective modules over hereditary Noetherian prime rings.	767
NAGURA, T.: On the normal bundles of S^2 minimally immersed into the unit spheres.	779
HANO, J.: Examples of projective manifolds not admitting Kähler metric with constant scalar curvature.	787
KU, H.-T., KU, M.-C. and MANN, L.N.: Newman's theorem for pseudo-submersions.	793
YOTSUTANI, S.: Stefan problems with the unilateral boundary condition on the fixed boundary II.	803
YOTSUTANI, S.: Stefan problems with the unilateral boundary condition on the fixed boundary III.	845
NAGAI, H.: Impulsive control of symmetric Markov processes and quasi-variational inequalities.	863
IKEGAMI, T.: On the simplicial cone of superharmonic functions in a resolute compactification of a harmonic spaces.	881
NOZAWA, R.: Duality in generalized homogeneous programming.	899
KOISO, M.: On the space of minimal surfaces with boundaries.	911
OZAWA, S.: Point interaction potential approximation for $(-\Delta + U)^{-1}$ and eigenvalues of the Laplacian on wildly perturbed domain.	923
MINAMI, H.: <i>Correction to "On J_R-homomorphisms".</i>	939
UCHIYAMA, K.: <i>Correction to "On the growth of solutions of semi-linear diffusion equation with drift",</i>	943