

HIROSHIMA MATHEMATICAL JOURNAL

Formerly

JOURNAL OF SCIENCE OF THE HIROSHIMA UNIVERSITY, SERIES A-I (MATHEMATICS)

VOLUME 20

1990

PUBLISHED BY

DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE
HIROSHIMA UNIVERSITY
HIROSHIMA, JAPAN

TABLE OF CONTENTS

VOLUME 20, 1990

CHENG, Q. and H. NAKAGAWA: Totally umbilic hypersurfaces	1
CHUANXI, Q. and G. LADAS: Linearized oscillations for equations with positive and negative coefficients	331
DOI, H. and R. SAWAE: A linearization of the Einstein-Maxwell field equations	515
DOI, H. and K. KOBAYASHI: Asymptotic behavior of three Riemannian metrics on the moduli space of 1-instantons over a definite 4- manifold	613
DOI, H. and R. SAWAE: Chiral models and the Einstein-Maxwell field equations	651
FANG, Q: Asymptotic behavior and domain-dependency of solutions to a class of reaction-diffusion systems with large diffusion coefficients	549
FURUTA, H. and T. SAKAMOTO: Lie algebras in which every 1- dimensional weak subideal is an ideal	23
FUJIKOSHI, Y. and T. KANDA: Asymptotic distributions of the MLE's and the LR test in the growth curve model with a serial covariance structure	285
FUKAGAI, N.: Nonnegative entire solutions of a class of degenerate semilinear elliptic equations	385
GOTO M.: Maximal tori and the center in an analytic group	421
HAŠČÁK, A.: Asymptotic and integral equivalence of multivalued differential systems	425
HRICISÁKOVÁ, D.: Continuability and (non-) oscillatory properties of solutions of generalized Liénard equation	11
HYAKUTAKE, H.: Statistical inferences on location parameters of bivariate exponential distributions	525
ICHIKAWA, H. and T. YOSHIDA: Some monomials in the universal Wu classes	127
IKEDA, T. and N. KAWAMOTO: On the derivations of generalized Witt algebras over a field of characteristic zero	47
IMAOKA, M.: The maximal codegree of the quaternionic projective spaces	351

JAROŠ, J. and T. KUSANO: On oscillation of linear neutral differential equations of higher order	407
KACHI, H.: Homotopy commutativity of the loop space of a finite CW-complex	365
KAJIKIYA, R.: Sobolev norms of radially symmetric oscillatory solutions for superlinear elliptic equations	259
KANDA, T.: See FUJIKOSHI, Y.	285
KAWAMOTO, N.: See IKEDA, T.	47
KAWAMURA, M.: A note on Picard principle for rotationally invariant density	395
KI, U-H., H. NAKAGAWA and Y. J. SUH: Real hypersurfaces with harmonic Weyl tensor of a complex space form	93
KIM, B. H.: Fibred Riemannian spaces with quasi Sasakian structure	477
KOBAYASHI, K.: See DOI, H.	613
KOBAYASHI, Y.: A mathematical study on statistical database designs	443
KOBAYASHI, Y. and S. OHARU: Semigroups of locally Lipschitzian operators in Banach spaces	573
KOYAMA, T.: On some contractive properties for the heat equations	277
KUBO, F. and F. MIMURA: Extensions of Poisson algebras by derivations.....	37
KUSANO, T.: See JAROŠ, J.	407
KUSANO, T. and C. A. SWANSON: Existence theorems for Monge-Ampere equations in R^N	643
LADAS, G.: See CHUANXI, Q.	331
MAEDA, T.: An elementary proof of the rationality of the moduli space for rank 2 vector bundles on P^2	103
MAEDA, T.: On the invariant field of binary octavics.....	619
MARUO, O.: Subideals of the join of Lie algebras.....	57
MARUŠIAK, P.: Oscillation criteria for nonlinear differential systems with general deviating arguments of mixed type	197
MASUMOTO, M.: A distortion theorem for conformal mappings with an application to subharmonic functions.....	341
MIMURA, F.: See KUBO, F.	37
MIYAKAWA, T.: On Morrey spaces of measures: basic properties and potential estimates	213
MIZUTA, T.: Boundary limits of locally n -precise functions	109
MUSTAFID: A limit theorem of symmetric statistics for non-identically distributed independent random elements	159

MUSTAFID: The law of small numbers and the limit theorem for symmetric statistics with mixing conditions	171
NAITO, Y.: Nonoscillatory solutions of neutral differential equations ..	231
NAKAGAWA, H.: See CHENG, Q.	1
NAKAGAWA, H.: See KI, U-H.	93
NISHIURA, Y. and T. TSUJIKAWA: Instability of singularly perturbed Neumann layer solutions in reaction-diffusion systems	297
OHARU, S.: See KOBAYASHI, Y.	573
OHTAKI, M.: Some estimators of covariance matrix in multivariate nonparametric regression and their applications.....	63
ONOSE, H.: On oscillation of Volterra integral equations and first order differential equations.....	223
OZAWA, T.: Non-existence of positive commutators	209
SAKAMOTO, T.: See FURUTA, H.....	23
SAWAE, R.: See DOI, H.....	515
SAWAE, R.: See DOI, H.....	651
SUH, Y. J.: See KI, U-H.....	93
ŠVEC, M.: Oscillatory criteria for differential equations with deviating argument	185
SWANSON, C. A.: See KUSANO, T.....	643
TOTOKI, H. and Y. TSUJII: Exactness and Bernoulliness of generalized random dynamical systems	399
TSUJII, Y.: See TOTOKI, H.	399
TSUJIKAWA, T.: See NISHIURA, Y.	297
YAMAMOTO, H.: On wieghted extremal length and p -capacity	633
YOKOI, Y.: Positive generalized white noise functionals.....	137
YOSHIDA, T.: See ICHIKAWA, H.....	127

CONTENTS

	PAGE
Y. KOBAYASHI: A mathematical study on statistical database designs	443
B. H. KIM: Fibred Riemannian spaces with quasi Sasakian structure	477
H. DOI and R. SAWAE: A linearization of the Einstein-Maxwell field equations	515
H. HYAKUTAKE: Statistical inferences on location parameters of bivariate exponential distributions	525
Q. FANG: Asymptotic behavior and domain-dependency of solutions to a class of reaction-diffusion systems with large diffusion coefficients	549
Y. KOBAYASHI and S. OHARU: Semigroups of locally Lipschitzian operators in Banach spaces	573
H. DOI and K. KOBAYASHI: Asymptotic behavior of three Riemannian metrics on the moduli space of 1-instantons over a definite 4-manifold	613
T. MAEDA: On the invariant field of binary octavics	619
H. YAMAMOTO: On weighted extremal length and p-capacity	633
T. KUSANO and C. A. SWANSON: Existence theorems for Monge-Ampère equation in R^N	643
H. DOI and R. SAWAE: Chiral models and the Einstein-Maxwell field equations	651