

HIROSHIMA MATHEMATICAL JOURNAL

Formerly

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

VOLUME 3,

NOVEMBER, 1973

PUBLISHED SEMI-ANNUALLY BY
DEPARTMENT OF MATHEMATICS
FACULTY OF SCIENCE
HIROSHIMA UNIVERSITY
HIROSHIMA, JAPAN

TABLE OF CONTENTS

VOLUME 3, 1973

AIZAWA, S.: A Semigroup Treatment of the Hamilton-Jacobi Equation in One Space Variable	367
CHEN, L-S., T. KUSANO and K. KURODA: Weakly Coupled Parabolic Systems with Unbounded Coefficients	1
EGUCHI, M., M. HASHIZUME and K. OKAMOTO: The Paley-Wiener Theorem for Distributions on Symmetric Spaces	109
FUJII, K.: On the K -Ring of S^{4n+3}/H_m	251
HAMADA, N.: On the p -Rank of the Incidence Matrix of a Balanced or Partially Balanced Incomplete Block Design and its Applications to Error Correcting Codes	153
HASHIZUME, M., K. MINEMURA and K. OKAMOTO: Harmonic Functions on Hermitian Hyperbolic Spaces	81
HASHIZUME, M., M. EGUCHI and K. OKAMOTO: The Paley-Wiener Theorem for Distributions on Symmetric Spaces	109
HOLLAND, S.S., Jr.: Isomorphisms between Interval Sublattices of an Orthomodular Lattice	227
KARTSATOS, A.G.: Existence of Solutions of Heavily Nonlinear Volterra Integral Equations.....	243
KENMOCHI, N.: Remarks on the m -Accretiveness of Nonlinear Operators	61
KOBAYASHI, K.: Some Remarks to the Construction of Branching Markov Processes with Age and Sign	439
KURODA, T., T. KUSANO and L-S. CHEN: Weakly Coupled Parabolic Systems with Unbounded Coefficients	1
KUSANO, T., T. KURODA and L-S. CHEN: Weakly Coupled Parabolic Systems with Unbounded Coefficients	1
MAEDA, F-Y.: Energy of Functions on a Self-adjoint Harmonic Space II... 37	
MAEDA, F-Y.: On the Green Function of a Self-adjoint Harmonic Space...361	
MINEMURA, K.: Harmonic Functions on Real Hyperbolic Spaces	121
MINEMURA, K., M. HASHIZUME and K. OKAMOTO: Harmonic Functions on Hermitian Hyperbolic Spaces	81
MIZUMOTO, H.: A Finite-Difference Method on a Riemann Surface	277

OKAMOTO, K, M. HASHIZUME and K. MINEMURA: Harmonic Functions on Hermitian Hyperbolic Spaces	81
OKAMOTO, K, M. EGUCHI and M. HASHIZUME: The Paley-Wiener Theorem for Distributions on Symmetric Spaces	109
ONOSE, H.: Oscillation and Asymptotic Behavior of Solutions of Retarded Differential Equations of Arbitrary Order	333
SHUDO, T.: Character Groups of Toral Lie Algebras	267
TÔGÔ, S.: Characterizations of Radicals of Infinite Dimensional Lie Algebras	25
TSUNO, Y.: On a Class of Differential Operators with Polynomial Coefficients	69
WAKIMOTO, M.: On the Irreducibility of Induced Representations of $SU(2, 1)$	391
YAMASAKI, M.: An Independence Condition in Semi-Infinite Programs...	15
YANAGIHARA, H.: Remarks on Algebraic Hopf Subalgebras	387
YASUI, T.: Note on the Enumeration of Embeddings of Real Projective Spaces	409
YOSHIDA, K.: On the Cauchy Problem for Linear Hyperbolic Differential Equations with Multiple Characteristics and Constant Leading Coefficients	419

昭和四十八年十一月二十日 印刷
昭和四十八年十一月二十五日 発行

編集者 広島大学理学部
数学教室

印刷者 増田訓清
広島市十日市町2丁目3番23号

印刷所 大学印刷株式会社
広島市十日市町2丁目3番23号

PRINTED BY
DAIGAKU INSATSU CO., LTD
HIROSHIMA, JAPAN

CONTENTS

	PAGE
S.S. HOLLAND, Jr.: Isomorphisms between Interval Sublattices of an Ortho-modular Lattice	227
A. G. KARTSATOS: Existence of Solutions of Heavily Nonlinear Volterra Integral Equations	243
K. FUJII: On the K -Ring of S^{4n+3}/H_m	251
T. SHUDO: Character Groups of Toral Lie Algebras	267
H. MIZUMOTO: A Finite-Difference Method on a Riemann Surface	277
H. ONOSE: Oscillation and Asymptotic Behavior of Solutions of Retarded Differential Equations of Arbitrary Order	333
F-Y. MAEDA: On the Green Function of a Self-adjoint Harmonic Space	361
S. AIZAWA: A Semigroup Treatment of the Hamilton-Jacobi Equation in One Space Variable	367
H. YANAGIHARA: Remarks on Algebraic Hopf Subalgebras	387
M. WAKIMOTO: On the Irreducibility of Induced Representations of $SU(2, 1)$...	391
T. YASUI: Note on the Enumeration of Embeddings of Real Projective spaces...	409
K. YOSHIDA: On the Cauchy Problem for Linear Hyperbolic Differential Equations with Multiple Characteristics and Constant Leading Coefficients ..	419
K. KOBAYASHI: Some Remarks to the Construction of Branching Markov Processes with Age and Sign	439