

TOHOKU MATHEMATICAL JOURNAL

東北數學雜誌

(FOUNDED BY T.HAYASHI IN 1911)

EDITED BY

SATORU IGARI	YASUO MORITA
SEIKI NISHIKAWA	TADAO ODA
NORIO SHIMAKURA	TOSHIKAZU SUNADA
IZUMI TAKAGI	MASAYOSHI TAKEDA

WITH THE CO-OPERATION OF THE
MATHEMATICAL INSTITUTE OF TOHOKU UNIVERSITY

2000

SECOND SERIES VOL. 52

THE TOHOKU UNIVERSITY
SENDAI, 980-8578 JAPAN

INDEX

Vol. 52, 2000

- AIYAMA, Reiko and AKUTAGAWA, Kazuo: Kenmotsu type representation formula for surfaces with prescribed mean curvature in the 3-sphere 95–105
- AIYAMA, Reiko, AKUTAGAWA, Kazuo and WAN, Tom Y. H.: Minimal maps between the hyperbolic discs and generalized Gauss maps of maximal surfaces in the anti-de sitter 3-space 415–429
- AKUTAGAWA, Kazuo: *see* AIYAMA, Reiko and AKUTAGAWA, Kazuo
- AKUTAGAWA, Kazuo: *see* AIYAMA, Reiko, AKUTAGAWA, Kazuo and WAN, Tom Y. H.
- ALTMANN, Klaus and STRATEN, Duco van: The polyhedral Hodge number $h^{2,1}$ and vanishing of obstructions 579–602
- BAJO, Ignacio: Maximal isotropy groups of Lie groups related to nilradicals of parabolic subalgebras 19– 29
- CARRO, María J. and HEINIG, Hans: Modular inequalities for the Calderón operator 31– 46
- CHI, Quo-Shin: The dimension of the moduli space of superminimal surfaces of a fixed degree and conformal structure in the 4-sphere 299–308
- DING, Yong and LU, Shanzhen: Homogeneous fractional integrals on Hardy spaces 153–162
- EHRlich, Paul E. and SÁNCHEZ, Miguel: Some semi-Riemannian volume comparison theorems 331–348
- FAN, Meng and WANG, Ke: Periodic solutions of convex neutral functional differential equations 47– 59
- FARDOUN, Ali and RATTO, Andrea: On the second variation of the identity map of a product manifold 235–249
- FERAPONTOV, Eugene V.: Lie sphere geometry and integrable systems 199–233
- GARCIA, Ronaldo, GUTIERREZ, Carlos and SOTOMAYOR, Jorge: Lines of principal curvature around umbilics and Whitney umbrellas 163–172
- GASPER, George and TREBELS, Walter: Norm inequalities for fractional integrals of Laguerre and Hermite expansions 251–260
- GOPALSAMY, Kondalsamy: *see* MOHAMAD, Sannay and GOPALSAMY, Kondalsamy
- GUTIERREZ, Carlos: *see* GARCIA, Ronaldo, GUTIERREZ, Carlos and SOTOMAYOR, Jorge
- HAMADA, Yūsaku: Une remarque sur le problème de Cauchy pour l’opérateur différentiel de la partie principale à coefficients polynomiaux 79– 94
- HASHIMOTO, Ki-ichiro: On Brumer’s family of RM-curves of genus two 475–488

HEINIG, Hans: <i>see</i> CARRO, María J. and HEINIG, Hans	
KAWAZOE, Takeshi: Hardy spaces and maximal operators on real rank 1 semisimple Lie groups I.....	1– 18
KITAGAWA, Yoshihisa: Isometric deformations of flat tori in the 3-sphere with nonconstant mean curvature.....	283–298
KONNO, Tatsuo: Decomposition of Killing vector fields on tangent sphere bundles.....	349–366
KÜPPER, Tassilo, LI, Yong and ZHANG, Bo: Periodic solutions for dissipative-repulsive systems.....	321–329
KURATA, Kazuhiro and SUGANO, Satoko: Estimates of the fundamental solution for magnetic Schrödinger operators and their applications.....	367–382
LI, Yong: <i>see</i> KÜPPER, Tassilo, LI, Yong and ZHANG, Bo	
LÓPEZ, Rafael: Timelike surfaces with constant mean curvature in Lorentz three-space.....	515–532
LU, Shanzhen: <i>see</i> DING, Yong and LU, Shanzhen	
MAJIMA, Hideyuki, MATSUMOTO, Keiji and TAKAYAMA, Nobuki: Quadratic relations for confluent hypergeometric functions.....	489–513
MARTÍNEZ, Teresa and TORREA, José Luis: Operator-valued martingale transforms.....	449–474
MASUDA, Kayo and MIYANISHI, Masayoshi: Invariant subvarieties of low codimension in the affine spaces.....	61– 77
MATSUKI, Kenji: Correction: A note on the factorization theorem of toric birational maps after Morelli and its toroidal extension.....	629–631
MATSUMOTO, Keiji: <i>see</i> MAJIMA, Hideyuki, MATSUMOTO, Keiji and TAKAYAMA, Nobuki	
MEGYESI, Gábor: Configurations of conics with many tacnodes.....	555–577
MIYANISHI, Masayoshi: <i>see</i> MASUDA, Kayo and MIYANISHI, Masayoshi	
MO, Xiaohuan and NEGREIROS, Caio J. C.: $(1, 2)$ -symplectic structures on flag manifolds.....	271–282
MOHAMAD, Sannay and GOPALSAMY, Kondalsamy: Extreme stability and almost periodicity in a discrete logistic equation.....	107–125
NEGREIROS, Caio J. C.: <i>see</i> MO, Xiaohuan and NEGREIROS, Caio J. C.	
OHTA, Takuya: On θ -stable Borel subalgebras of large type for real reductive groups.....	127–152
OLEDZKI, Wieslaw J.: Exotic involutions of low-dimensional spheres and the Eta-invariant.....	173–198
RATTO, Andrea: <i>see</i> FARDOUN, Ali and RATTO, Andrea	
SÁNCHEZ, Miguel: <i>see</i> EHRLICH, Paul E. and SÁNCHEZ, Miguel	
SATO, Hiroshi: Toward the classification of higher-dimensional toric Fano varieties.....	383–413

- SHIMAKURA, Norio: Normal coordinate systems from a viewpoint of real analysis..... 533–553
- SONG, Yongjin: The braidings of mapping class groups and loop spaces..... 309–319
- SOTOMAYOR, Jorge: *see* GARCIA, Ronaldo, GUTIERREZ, Carlos and SOTOMAYOR, Jorge
- STRATEN, Duco van: *see* ALTMANN, Klaus and STRATEN, Duco van
- SUGANO, Satoko: *see* KURATA, Kazuhiro and SUGANO, Satoko
- TAKAYAMA, Nobuki: *see* MAJIMA, Hideyuki, MATSUMOTO, Keiji and TAKAYAMA, Nobuki
- TANIGAKI, Miho: Saturation of the approximation by spectral decompositions..... 431–447
- TANIGUCHI, Tetsuya: Non-isotropic harmonic tori in complex projective spaces and configurations of points on rational or elliptic curves..... 603–628
- TORREA, José Luis: *see* MARTÍNEZ, Teresa and TORREA, José Luis
- TREBELS, Walter: *see* GASPER, George and TREBELS, Walter
- WAN, Tom Y. H.: *see* AIYAMA, Reiko, AKUTAGAWA, Kazuo and WAN, Tom Y. H.
- WANG, Ke: *see* FAN, Meng and WANG, Ke
- YOSHIJI, Katsuhiro: The first eigenvalues of finite Riemannian covers..... 261–270
- ZHANG, Bo: *see* KÜPPER, Tassilo, LI, Yong and ZHANG, Bo

CONTENTS

	Page
Ki-ichiro HASHIMOTO: On Brumer's family of RM-curves of genus two	475
Hideyuki MAJIMA, Keiji MATSUMOTO and Nobuki TAKAYAMA: Quadratic relations for confluent hypergeometric functions	489
Rafael LÓPEZ: Timelike surfaces with constant mean curvature in Lorentz three-space	515
Norio SHIMAKURA: Normal coordinate systems from a viewpoint of real analysis	533
Gábor MEGYESI: Configurations of conics with many tacnodes	555
Klaus ALTMANN and Duco van STRATEN: The polyhedral Hodge number $h^{2,1}$ and vanishing of obstructions	579
Tetsuya TANIGUCHI: Non-isotropic harmonic tori in complex projective spaces and configurations of points on rational or elliptic curves	603
Kenji MATSUKI: Correction: A note on the factorization theorem of toric birational maps after Morelli and its toroidal extension	629