

# I 数学専攻・数学科



# 1 数学専攻

## 1-1 専攻の理念と目標

## 1-2 専攻の組織と運営

教職員

27

H28 1. 1

Jurgen Berndt H28 3. 1

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H27. 4. 1



- · · RAAGs in knot groups
- · · AI
- · · Borel
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- · · Estimation of covariance matrix via shrinkage Cholesky factor
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- · · fat point
- · · A Vasicek-type short rate model with memory effect
- · · Vasicek
- · · L<sup>p</sup>- Hölder
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博士学位

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- · · Bernstein type theorems for some types of parabolic k-Hessian equations
- · · k-Hessian Bernstein

- · · Rasha Mohamed Farghly Eid
- · ·
- · · Elliptic Quantum Algebra  $U_{\{q,p\}}(\mathfrak{g}^{\wedge})$ , Dynamical Quantum Z-algebra and Higher Level Representation
- · ·  $U_{\{q,p\}}(\mathfrak{g}^{\wedge})$

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- · · On Sawollek polynomials of checkerboard colorable virtual links

28 23

Veering structures of the canonical decompositions of hyperbolic fibered two-bridge link complements

28 23

Commensurability between once-punctured torus groups and once-punctured Klein bottle groups

Hoang Thanh Hoai

28 23

Degeneration of Fermat hypersurfaces in positive characteristic

T Aの実績 (のべ雇用者数)

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大学院教育の国

2015 30 13 00 14 00  
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Limit theorems for expanding fibred systems via analytic perturbation of Perron-Frobenius operators

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Consistent Information Criterion in Normal Multivariate Linear Regression Models even under High-Dimensionality

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The 23rd International Conference on Finite or Infinite Dimensional Complex Analysis and Applications

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Analytic, Algebraic and Geometric Aspects of Differential Equations 2015

2015 19

Stefan Banach International Mathematical Research and Conference Center,  
 Bedlewo (Poland)

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The 50th Symposium on Finsler Geometry "Half a Century of Finsler Geometry in Japan"

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Sabau V. Sorin

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JongHae Keum

Automorphisms of K3 surfaces

27 24 15:00

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Igor Dolgachev University of Michigan,

Pencils of quadrics in characteristic 2

27 15:00

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Daniel Allcock University of Texas

Hyperbolic reflection groups and automorphisms of Enriques surfaces

27 22 15:00

B701

James Lewis University of Alberta

An Archimedean Height Pairing on the Equivalence Relation Defining Bloch's Higher Chow Groups

27 26 15:00

C816

Anthony Giaquinto Loyola University

Some Properties of Frobenius Lie Algebras

27 15:00

B701

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B701

Equivalences of derived factorization categories of gauged Landau-Ginzburg models

27 31 15:00

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Nguyen Chanh Tu Danang University of Technology

Recent results on regularity index of  $n+3$  fat points in the  $n$ -dimensional projective space

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· Alex Degtyarev Bilkent  
· LINES ON SMOOTH QUARTICS

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· Hermite-Minkowski

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· Viacheslav Nikulin University of Liverpool  
· Classification of degenerations of Kahlerian K3 surfaces with finite symplectic  
· automorphism groups

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· Alex Degtyarev Bilkent  
· Real Enriques surfaces

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· Compact moduli of marked noncommutative del Pezzo surfaces via quivers

広

Jae-Ho Lee

Nonsymmetric Askey-Wilson polynomials and Q-polynomial distance-regular graphs

広島大学トポロジー・幾何セミナー

2015 13:00 14:30

B702

Andreas Arvanitoyeorgos University of Patras, Greece

Progress on homogeneous Einstein manifolds

2015 21 15:00 16:30

B702

Exotic 4-manifolds and non-concordant knots with the same 0-surgery

2015 22 15:30 17:00

B702

2015 24 13:00 17:00

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Complex projective structures on surfaces, and  $\mathrm{PSL}(2, \mathbb{C})$ -character varieties

2015 28 15:00 16:30

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Stable presentation length of 3-manifold groups

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Nigel Higson Pennsylvania State University

The Oka principle: commutative and noncommutative

2015 15:00 16:30

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Generalized torsion elements in the knot groups of twist knots

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Yuri Nikolayevsky (La Trobe University, Australia)

1. Solvable Lie groups of negative Ricci curvature

2. Totally geodesic hypersurfaces of homogeneous spaces

15:00 16:30

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The asymptotic behavior of the minimal pseudo-Anosov dilatations in the hyperelliptic handlebody groups

2015 28 15:00 16:30

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Artin

AI

RAAGs in knot groups

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13:00 - 14:30

Liang Chen Northeast Normal University  
Legendrian dualities and their applications

15:00 - 16:30

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Closed random mapping tori are asymmetric

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Vaisman

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On the cusp shape of hyperbolic knots and its generalizations

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Alex Degtyarev Bilkent University  
Slopes of colored links



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McMaster

Well-posedness and stability in the integrable systems

16:30 17:30

A minimization problem with a sign changing condition

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Traveling waves bifurcating from Poiseuille flow in viscous compressible fluid

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2015 26 16:30 17:30

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Jessica Lin University of Wisconsin-Madison  
Algebraic Error Estimates for the Stochastic Homogenization of Parabolic Equations

192

2015 10 16:20 17:50

E210

Marie Farge LMD-CNRS, Ecole Normale Supérieure  
Kai Schneider M2P2-CNRS, Aix-Marseille University  
State of the art of wavelets for turbulence: analysis, modeling and simulation

193

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Dynamical approach to an elliptic overdetermined problem

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Flag paraproduct Hardy

16:30 17:30

On Ukai-type solution formula for the Stokes system in a domain with graph boundary

195 39

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Christophe Prange Institut de Mathématiques de Bordeaux

Boundary layers in homogenization

196

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$L^2$  KdV

広島複素解析

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Wallenberg

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Multiple-scale analysis for some class of systems of non-linear differential equations

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New elliptic function identities and an elliptic analogue of reciprocity laws of generalized Dedekind sums

広島確率論・力学系セミナー

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広島統計グループ金曜セミナー

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GMANOVA

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NBI

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Consistent information criterion in normal multivariate linear regression models even under high-dimensionality

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Bridge AIC

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Detecting the latent sampling rate behind observations

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Estimation of correlated random coefficient models for short panels with a multi-factor error structure

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Ridge regression for extracting the Hodrick-Prescott cycle directly and several related results

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Solvang Hiroko Institute of Marine Research, Norway

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Higher-level representation of local invariant features with applications in scene recognition, human action recognition and medicine

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Objective prior based on the  $\alpha$ -divergence for non-regular model

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Robust sparse Gaussian graphical modeling for high-dimensional data

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Bootstrap inference with many instruments or weak instruments

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Regularization parameter selection for penalized empirical likelihood estimator in misspecified models

広島統計

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GMANOVA AIC

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学術団体からの受賞実績

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学生の受賞実績

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国際交流実

Selman Akbulut  
Tian-Jun Li  
Cheuk Yu Mak  
Mohsen Pourahmadi Texas A&M

R Aの実績

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Rasha Mohamed Farghly Eid

\*Z\*-

Einstein

Hoang Thanh Hoai

個人別の研究活動の概要, 発表論文, 講演等

代数数理講座

木

島田伊知朗 (教授)

○研究概要

K3            Enriques

○論文

Ichiro Shimada, An algorithm to compute automorphism groups of K3 surfaces and an application to singular K3 surface, *Int. Math. Res. Not. IMRN* **2015** (2015), 11961-12014.

Thanh Hoai Hoang and Ichiro Shimada, On Ballico-Hefez curves and associated supersingular surfaces, *Kodai Math. J.* **38** (2015), 23-36.

Ichiro Shimada and De-Qi Zhang, Dynkin diagrams of rank 20 on supersingular K3 surfaces, *Sci. China Math.* **58** (2015), 543-552.

○



G. Wiesend

○論文

Toshiro Hiranouchi, Milnor K-groups attached to elliptic curves over a p-adic field, *Functiones et Approximatio* **54** (2016), 39-55.

○国際会議での講演

\_\_\_\_\_ East Asia Number Theory Conference, 2015 24

宮谷和堯 (特任助教)

○研究概要

p- p- p-  
F- D- Arinkin  
(2008)

○I

○論文

Ken'ichi Ohshika and Makoto Sakuma, A Subgroups of mapping class groups related to Heegaard

○論文

Shinobu Fujii and Hiroshi Tamaru, Moment maps and isoparametric hypersurfaces in spheres --- Hermitian cases, *Transf. Groups* **20** (2015), 417-436.

Hiroshi Tamaru, Part II In:  
2014 55-60 (2015).

Sadahiro Maeda and Hiroshi Tamaru, Naturally reductive homogeneous real hypersurfaces in a nonflat complex space form, *Topology Appl.* **196** (2015), 675-683.

○国際会議での講

Haken

○論文

Yuya Koda, Automorphisms of the 3-sphere that preserve spatial graphs and handlebody-knots, *Mathematical Proceedings of the Cambridge Philosophical Society* **159** (2015), 1-22.

Sangbum Cho and Yuya Koda, Disk complexes and genus two Heegaard splittings for nonprime 3-manifolds, *International Mathematics Research Notices IMRN2015* (2015), 4344-4371.

Sangbum Cho and Yuya Koda, The Goeritz groups of Heegaard splittings for 3-manifolds, **1960** “Intelligence of Low-dimensional Topology” (2015), 46-58.

Yuya Koda and Makoto Ozawa, Knot homotopy in subspaces of the 3-sphere, *Pacific Journal of Mathematics* **282** (2016), 389-414.

Masaharu Ishikawa and Yuya Koda, Stable maps and branched shadows of 3-manifolds, **1991** “Topology, Geometry and Algebra of low-dimensional manifolds” (2016), 88-97.

○国際会議



○国内学会での講演

	2015			
		2015		
			Delsarte	32
	2015			
		2015		
			62	2015
	2015	2015		
	Totally geodesic surfaces in Riemannian symmetric spaces and nilpotent orbits			
42	2015	11	Delsarte	2016
2016			Delsarte	
	2016			

安井弘一 (助教)

○研究概要

- 27
- (1) -1 1978
- Akbulut-Kirby
- (2) Stein
- Thurston-Bennequin Stein
- Stein
- J. Symplectic Geom., to appear
- (3) Stein Thurston-Bennequin
- Thurston-Bennequin

Legendre  
 Compositio Math., to appear  
 (4) Stein  
 Akbulut Stein 26  
 Math. Res. Lett., 2015

○論文

S. Akbulut and K. Yasui, Contact 5-manifolds admitting open books with exotic pages, *Math. Res. Lett.* **22** (2015), 1589-1599.

○国際会議での講演

K. Yasui Branched Coverings, Degenerations, and Related Topics 2016 2016

○国内学会での講演

\_\_\_\_\_ 2015  
 \_\_\_\_\_ Friday Seminar on Knot Theory 2015  
 \_\_\_\_\_ 2015 2015  
 Selman Akbulut \_\_\_\_\_ 2015 2015  
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**数理解析講座**

川下美潮 (教授)

○研究概要

○国内学会での講演

2015

吉野正史 (教授)

○研究概要

(1) parametric Borel

(2)

Monodromy of confluent hypergeometric system of Okubo  
type, *RIMS Kokyuroku Bessatsu* **B57** (2016), 281-296

(3)

(4) 2016

(5)

(6) 2015

(7)

○論文

M. Yoshino and H. Yamazawa, Borel summability of some semilinear system of partial differential equations, *Opuscula Mathematica* **35** (2015), 825-845.

M. Yoshino, Analytic continuation of Borel sum of formal solution of semilinear partial differential equation, *Asymptotic Analysis* **92** (2015), 65-84.

Masafumi Yoshino, Semi-formal solution and monodromy of some confluent hypergeometric equations,

○国際会議での講演

	<u>Masafumi Yoshino</u>	Analytic, Algebraic and Geometric Aspects of Differential Equations			
2015	2015	19	Banach Center (Poland)		
	<u>Masafumi Yoshino</u>	Microlocal Analysis and Singular Perturbation Theory	2015	10	
		(Kyoto)			
	<u>Masafumi Yoshino</u>	Algebraic Analytic Methods	2015	12	12 11
		(Kyoto)			

○国内学会での講演

	<u>Masafumi Yoshino</u>	2016	2016	16	19
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滝本和広 (准教授)

○研究概要

- (1)  $f(x,y)$  Bernstein  $\mathbb{R}^2$   $z=f(x,y)$  Bernstein
- k-Hessian Bernstein  
Nonlinear Analysis
- (2) (1)  $-u_t F_k(D^2u)=1$  k-Hessian Bernstein  
Monge-Ampère
- k-Hessian  
Springer Proceedings in Mathematics & Statistics

(3)

○論文

- Saori Nakamori and Kazuhiro Takimoto, A Bernstein type theorem for parabolic  $k$ -Hessian equations, *Nonlinear Anal.* **117** (2015), 211-220.
- Saori Nakamori and Kazuhiro Takimoto, Entire solutions to generalized parabolic  $k$ -Hessian equations, *Proceedings of the 4th Italian-Japanese workshop on Geometric Properties for Parabolic and Elliptic PDE's*, *Springer Proceedings in Mathematics & Statistics*, to appear.

○総説・解説

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○国際会

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○国内学会での講演

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equation		Weierstrass' elliptic function solution to the autonomous limit of the string				
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polyhedra		The best constants of discrete Sobolev inequality on weighted truncated				
		2016	2016	23	25	KKR

**確率統計講座**

井上昭彦 (教授)

○研究概要

20

Mohsen Pourahmadi

[*Proc. Amer.*

*Math. Soc.* **144** (2016), 1779-1786] [*Integr. Equ. Oper. Theory* **84** (2016), 289-300]

Y. Kasahara, A. Inoue and M. Pourahmadi, Rigidity for matrix-valued Hardy functions, *Integral Equations and Operator Theory* **84** (2016), 289-300

A. Inoue, Y. Kasahara and M. Pourahmadi, The intersection of past and future for multivariate stationary processes, *Proceedings of the American Mathematical Society* **144** (2016) 1779-1786

○国際会議

2015

○著書

\_\_\_\_\_

2015

柳原宏和（准教

○国際会議での講演

Yanagihara, H. and Shimodaira, H. Consistent information criterion in normal multivariate linear regression models even under high-dimensionality The 9th Conference of the Asian Regional Section of the International Association for Statistical Computing (IASC-ARS 2015) 2015 12 17 12 19 Singapore

Fukui, K. and Yanagihara, H. A non-iterative optimization of smoothing parameter in penalized spline regression by minimizing GCV East Asia Regional Biometric Conference 2015 2015 12 20 12 22 Fukuoka

○国内学会での講演

\_\_\_\_\_ Consistent information criterion for normal multivariate linear regression model under high-dimensionality 2015 \_\_\_\_\_ 2015

\_\_\_\_\_ Asymptotic non-null distributions of test statistics for redundancy in the canonical correlation analysis when the dimension and the sample size are large 27 \_\_\_\_\_ 2016 24

大和祐一 (助教)

○研究概要

calculus  
 (1) (2) (3) topos  
 (1) object  $x^2=0$   $\rightarrow x^2$  equalizer intenal negation ((forall d.D)(d=0 disjunction intenal negation (d=0)))  
 (2)  $a+bd$   $a,b$  in  $\mathbb{R}$ ,  $d$  in  $\mathbb{R}$  transpose  $(\lambda d.D)(a+bd)$   $\mathbb{R}^2$   $\mathbb{R}^D$   
 isomorphism  $\rightarrow f(x+d)=f(x)+f'(x)d$   $x$  in  $\mathbb{R}$ ,  $d$  in  $\mathbb{R}$   
 $f$   
 (3)  $f(x)>0$  topos  $f(g(x+d))=f(g(x))+g'(x)d$   $x$  in  $\mathbb{R}$ ,  $d$  in  $\mathbb{R}$   $g'(x)d$   
 $f(g(x+d))=f(g(x))+f'(g(x))g'(x)d$  chain rule  
 17

橋本真太郎 (特任助教)

○研究概要

○論文

Hashimoto, S. and Koike, K., Bhattacharyya-type information inequality for the Bayes risk,  
*Communications in Statistics--Theory and Methods* **44** (2015), 5213-5224.

\_\_\_\_\_ Reference prior based on a general divergence for multi-parameter non-regular  
models **1954** (2015) 125-133

○国内学会での講演

\_\_\_\_\_ 2015 10 30  
\_\_\_\_\_ “ ” 2015 12  
\_\_\_\_\_ 2016 15

**総合数理講座**

阿賀岡芳夫 (教授)

○研究概要

generic

100%

○著書

M. Kitahara, C. Czerkawski, O. Kurihara, H. Teramoto, N. Zhang, S. Sakai, T. Takahama, R. Wada, Y. Agaoka, Contemporary Works in Economic Sciences, Chapter 6, Explicit irreducible decomposition of harmonic polynomials in the case of  $so(p,2)$ , Volume 7 in a Series of Monographs of

Contemporary Social Systems Solutions, Produced by the Faculty of Economics, Hiroshima Shudo University, Kyushu Univ. Press, Fukuoka, 83-109, 2016.

○国内学

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○論文

T. Mizumachi, Stability of line solitons for the KP-II equation in  $\mathbb{R}^2$ , *Mem. Amer. Math. Soc.* **238** (2015), vii+95pp.

○国際会議

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	_____	2015	23
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	_____	A variational problem for curves on Finsler surfaces	
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	_____	A variational problem for curves on Finsler surfaces	
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河村尚明（助教）

○研究概要

#### 各種研究員と外国人留学生の受入状況

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#### 研究助成

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SO(n,1)

学界ならびに社会での活動

○研究成果の社会への還元実績

○学術誌編集委員等

Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
 ACM Transactions on Modeling and Computer Simulation

Hiroshima Mathematical Journal  
 Journal of Knot Theory and Its Ramifications  
 Hiroshima Mathematical Journal

Zentralblatt MATH Reviewer  
 Mathematical Reviews MathSciNet Reviewer  
 Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
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 Hiroshima Mathematical Journal  
 Journal of Japan Statistical Society

Behaviormetrika  
 Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
 Hiroshima Mathematical Journal  
 Mathematical Reviews (American Mathematical Society) Reviewer

○講師

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2015

#### 1-5 その他特記事

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## 2 数学科

### 2-1 学科の

27	31
28	31

### 2-3 学科の学士課程教育

アドミッション・ポリシーとその目標

学士 目