

Geometry and analysis on complex algebraic varieties

RIMS 研究集会

京都大学数理解析研究所の共同研究事業の一つとして、平成 18 年度 二国間交流事業 ロシアとの共同研究（日本側代表 斎藤恭司、ロシア側代表 A. Alexsandrov）に 関連する研究集会を下記のように催しますので、ご案内申し上げます。（なお旅費支給希望者は 斎藤恭司（saito@kurims.kyoto-u.ac.jp, kenkyubu@kurims.kyoto-u.ac.jp）までお問い合わせ下さい。）

記

日時： 2006 年 12 月 11 日（月） 9:30 ~ 12 月 15 日（金） 17:00

場所： 京都大学数理解析研究所 2 階 202 号室

京都市左京区北白川追分町

市バス 農学部前 または 北白川 下車

プログラム

12 月 11 日 (月)

9:30-9:45 Opening

9:45-10:45 寺尾宏明（北海道大学）

Basic properties of multiarrangements

11:00-12:00 I. Dolgachev (University of Michigan)

Logarithmic sheaves attached to

arrangements of hyperplanes

13:30-14:30 吉永正彦 (ICTP, Trieste)

Characterizations of free arrangements

14:45-15:45 F-J. Castro-Jiménez (University of Seville)

Computational Methods for testing the range of validity of the LCT

16:00-17:00 阿部拓郎（北海道大学）

Construction of rank two reflexive sheaves from finite fields

12 月 12 日 (火)

9:45-10:45 田島慎一（新潟大学）

On holonomic D-modules attached to a family of non
quasihomogeneous hypersurface isolated singularities

- 11:00-12:00 T. Sadykov (Krasnoyarsk State University)
Algebraic functions as solutions of holonomic systems of
partial differential equations
- 13:30-14:30 竹内 潔 (筑波大学)
A generalization of Lefschetz fixed point theorems
for constructible sheaves (joint work with Y. Matsui)
- 14:45-15:45 F. Bracci (University of Rome 2)
Localization of characteristic classes on singular
varieties and dynamics of holomorphic diffeomorphisms
- 16:00-17:00 A. Shchuplev (Krasnoyarsk State University)
A new proof of the Vidras-Yger theorem for
the total sum of residues

12月13日 (水)

- 9:45-10:45 E. Materov (Krasnoyarsk State University)
Toric duality for quotient rings
- 11:00-12:00 D. Mond (University of Warwick)
Linear free divisors

12月14日 (木)

- 9:45-10:45 L. Fehér (Eötvös Loránd University)
The structure of Thom polynomials - Localization
(joint work with R. Rimanyi)
- 11:00-12:00 大本 享 (北海道大学)
Generating functions of orbifold Chern classes: Hilbert schemes
- 13:30-14:30 伊澤 賢 (北海道大学)
Residues of codimension one singular holomorphic distributions
- 14:45-15:45 関口次郎 (東京農工大学)
Three dimensional Saito free divisors and deformations of singular curves
- 16:00-17:00 石部 正、齋藤恭司 (数理研)
On the fundamental groups of complements of free divisors

12月15日 (金)

9:45-10:45 植田一石 (大阪大学)
 Coamoeba and mirror symmetry
 11:00-12:00 I. Antipova (Krasnoyarsk State University)
 Mellin transforms and algebraic equations
 13:30-14:30 M. Kazarian (Steklov Institute of Mathematics)
 TBA
 14:45-15:45 田邊 晋 (熊本大学)
 Gauss-Manin system associated to the singularity of projection.
 16:00-17:00 A. Aleksandrov (Institute for Control Sciences, RAS)
 The index of vector fields and logarithmic differential forms

 Workshop “Geometry and analysis on complex algebraic varieties”
 11th - 15th December, 2006
 Room 202, RIMS, Kyoto University

Program

December 11	(Monday)
9:30–9:45	Opening
9:45–10:45	H. Terao (Hokkaido University) Basic properties of multiarrangements
11:00–12:00	I. Dolgachev (University of Michigan) Logarithmic sheaves attached to arrangements of hyperplanes
13:30–14:30	M. Yoshinaga (ICTP, Trieste) Characterizations of free arrangements
14:45–15:45	F-J. Castro-Jiménez (University of Seville) Computational Methods for testing the range of validity of the LCT
16:00–17:00	T. Abe (Hokkaido University) Construction of rank two reflexive sheaves from finite fields
December 12	(Tuesday)
9:45–10:45	S. Tajima (Niigata University) On holonomic D-modules attached to a family of non quasihomogeneous hypersurface isolated singularities
11:00–12:00	T. Sadykov (Krasnoyarsk State University)

		Algebraic functions as solutions of holonomic systems of partial differential equations
13:30–14:30	K. Takeuchi (Tsukuba University)	A generalization of Lefschetz fixed point theorems for constructible sheaves (joint work with Y. Matsui)
14:45–15:45	F. Bracci (University of Rome 2)	Localization of characteristic classes on singular varieties and dynamics of holomorphic diffeomorphisms
16:00–17:00	A. Shchuplev (Krasnoyarsk State University)	A new proof of the Vidras-Yger theorem for the total sum of residues
December 13	(Wednesday)	
9:45–10:45	E. Materov (Krasnoyarsk State University)	Toric duality for quotient rings
11:00–12:00	D. Mond (University of Warwick)	Linear free divisors
December 14	(Thursday)	
9:45–10:45	L. Fehér (Eötvös Loránd University)	The structure of Thom polynomials - Localization (joint work with R. Rimanyi)
11:00–12:00	T. Ohmoto (Hokkaido University)	Generating functions of orbifold Chern classes: Hilbert schemes
13:30–14:30	T. Izawa (Hokkaido University)	Residues of codimension one singular holomorphic distributions
14:45–15:45	J. Sekiguchi (Tokyo University of Agriculture and Technology)	Three dimensional Saito free divisors and deformations of singular curves
16:00–17:00	T. Ishibe and K. Saito (RIMS, Kyoto University)	On the fundamental groups of complements of free divisors
December 15	(Friday)	
9:45–10:45	K. Ueda (Osaka University)	Coamoeba and mirror symmetry

- 11:00–12:00 I. Antipova (Krasnoyarsk State University)
Mellin transforms and algebraic equations
- 13:30–14:30 M. Kazarian (Steklov Institute of Mathematics)
TBA
- 14:45–15:45 S. Tanabe (Kumamoto University)
Gauss-Manin system associated to the singularity of projection
- 16:00–17:00 A. Aleksandrov (Institute for Control Sciences, RAS)
The index of vector fields and logarithmic differential forms