

タイリングと準周期系の数理解析

日時：2017年10月16日(月)～18日(水)

場所：京都市左京区北白川追分町 京都大学数理解析研究所 110 教室

10月16日(月曜)

○ 13:15～14:05

Ma. Louise Antonette N. De Las Penas (Ateneo de Manila University)

On Isohedral Isocoronal Tilings

○ 14:15～15:05

田中吉太郎(北海道大学)

葉序パターン形成機構の理解のための数理解析

○ 15:15～16:00

関村利朗(中部大学)

チョウの翅の斑紋とは何か？

○ 16:10～16:55

関村利朗(中部大学)

チョウの翅の斑紋形成モデル

10月17日(火曜)

○ 9:35～10:25

杉本晃久(科学芸術学際研究所 ISTA)

凸五角形タイリングとヘプタモンド

○ 10:35～11:25

佐藤郁郎(宮城県立がんセンター)

Crystallographic phase transition in generalized dimensions between

Sommerville crystal and Boerdijk-Coxeter non-crystal

○ 11:35～12:25

中居功(お茶の水女子大学)

Introduction to WEB geometry

○ 14:05～14:55

Agatha Kristel Mosqueda Abila (Southern Luzon State University)

Local and Global Color Symmetries of Tilings

○ 15:05～15:55

堀部和経(堀部数学模型研究所)

算額とビーズ多面体

○ 16:05～16:55

劉慶暉(北京理工大学)

On dimension of spectrum of Schrodinger operator with periodic

doubling potential

10月18日(水曜)

○ 9:35 ~ 10:25

Mark Loyola (Ateneo de Manila University)

String C groups associated with cylindrical and toroidal tilings

○ 10:35 ~ 11:25

吉田雅道 (大阪市立大学)

Irrational rotation, Denjoy homeomorphism and their odometer representations

○ 11:35 ~ 12:25

上菌拓郎 (龍谷大学), 須志田隆道 (北海道大学), 山岸義和 (龍谷大学)

回転対称性を加えた対数螺旋格子上の円充填とボロノイタイリング

(代表者:山岸 義和)

### Mathematics of tilings and quasi-periodic systems

Date : Monday, 16 October -- Wednesday, 18 October, 2017

Place : RIMS Room 110, Kyoto University

Monday, 16 October

○ 13:15 ~ 14:05

Ma. Louise Antonette N. De Las Penas (Ateneo de Manila University)

On Isohedral Isocoronal Tilings

○ 14:15 ~ 15:05

Yoshitaro Tanaka (Hokkaido University)

Mathematical analysis for understanding the mechanism of phyllotactic formation

○ 15:15 ~ 16:00

Toshio Sekimura (Chubu University)

What is color pattern in butterfly wings?

○ 16:10 ~ 16:55

Toshio Sekimura (Chubu University)

Models of color pattern formation in butterfly wings

Tuesday, 17 October

○ 9:35 ~ 10:25

Teruhisa Sugimoto (ISTA)

Convex pentagon tilings and heptiamonds

○ 10:35 ~ 11:25

Ikuro Sato (Miyagi Cancer Center)

Crystallographic phase transition in generalized dimensions between  
Sommerville crystal and Boerdijk-Coxeter non-crystal

○ 11:35 ~ 12:25

Isao Nakai (Ochanomizu University)

Introduction to WEB geometry

○ 14:05 ~ 14:55

Agatha Kristel Mosqueda Abila (Southern Luzon State University)

Local and Global Color Symmetries of Tilings

○ 15:05 ~ 15:55

Kazunori Horibe (HMMRC)

From sangaku problems to mathematical beading

○ 16:05 ~ 16:55

Qinghui Liu (Beijing Institute of Technology)

On dimension of spectrum of Schrodinger operator with periodic doubling potential

Wednesday, 18 October

○ 9:35 ~ 10:25

Mark Loyola (Ateneo de Manila University)

Symmetry groups of toroidal tilings

○ 10:35 ~ 11:25

Masamichi Yoshida (Osaka City University)

Irrational rotation, Denjoy homeomorphism and their odometer representations

○ 11:35 ~ 12:25

Takuro Uezono (Ryukoku University), Takamichi Sushida (Hokkaido University), Yoshikazu  
Yamagishi (Ryukoku University)

Circle packings and Voronoi tilings on logarithmic spiral lattices with rotational symmetry

Organizer: Yoshikazu Yamagishi.