Mathematics of tilings and quasiperiodic systems
タイリングと準周期系の数理 (RIMS 共同研究 (グループ型 A))

Date: Monday, October 19 – Wednesday, October 21, 2026
2026 年 10 月 19 日 (月)–21 日 (水)
Place: RIMS + Online via Zoom, Kyoto University
京都大学数理解析研究所

Monday, October 19, 2026 (2026 年 10 月 19 日 (月))

10:10-10:55 Yoshikazu Yamagishi 山岸義和 (Ryukoku Univ 龍谷大)

Grain boundaries in parabolic spiral lattices
放物螺旋格子の結晶粒界

11:05-11:50 Katsunobu Imai 今井勝喜 (Fukuyama Univ 福山大)

On reversible worms on Penrose tilings

(lunch 昼休み)

13:20-14:05 Supanut Chaidee (Chiang Mai Univ)

Enumerating the grid configurations of magnetic chess game through the subshift of finite type

14:15-15:00 Ryuji Abe 阿部 隆次 (Tokyo Polytechnic Univ 東京工芸大)

On binary structure of palindromes in continued fractions, Markoff's equation and similar vertex relations
連分数に現れる回文の二進構造, Markoff の方程式と類似の頂点の関係式について

15:10-15:55 Liangyi Huang 黄良益 (Wuhan Univ of Science and Tech 武漢科技大学) (Zoom)

New definition of box-counting measure and its application to Lipschitz classification of Moran sets

16:05-16:50 Hideki Tsuiki 立木秀樹 (Kyoto Univ 京都大)

Tetrahedral and octahedral families of 3D self-similar tiles from ternary digit sets

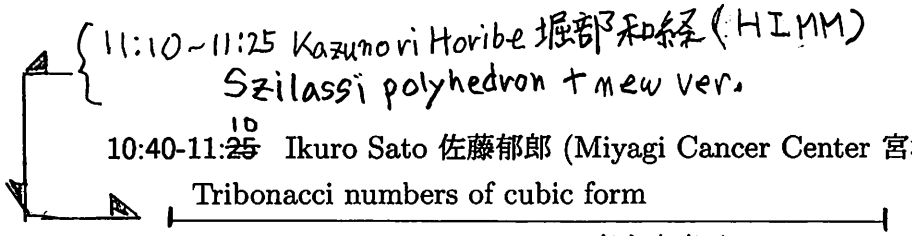
Tuesday, October 20, 2026 (2026 年 10 月 20 日 (火))

9:00-9:45 Eden Delight Miro (Ateneo de Manila Univ)

On certain generalizations of symbolic substitutions

9:55-10:30 Fumihiko Nakano 中野史彦 (Tohoku Univ 東北大) (Zoom)

サイクルの部分グラフと格子路との全単射の構成



10:40-11:~~25~~ 10 Ikuro Sato 佐藤郁郎 (Miyagi Cancer Center 宮城県立がんセンター)
Tribonacci numbers of cubic form

11:35-12:20 Katsuyuki Takashima 髙島克幸 (Waseda Univ 早稲田大)
Regev's quantum factoring algorithm with tribonacci sequence
トリボナッチ数列を用いた Regev 素因数分解量子アルゴリズム

(lunch 昼休み)

14:00-14:45 Shingo Nakanishi 中西真悟 (Osaka Inst Tech 大阪工業大),
Masaya Matsuura 松浦真也 (Ehime Univ 愛媛大),
Hans Walser (Univ of Basel, ETHZ),
Johan Gielis (Univ of Antwerp)
Geometric and artistic properties of various spirals derived from equilateral triangles or regular hexagons using specific cutting methods based on fundamental ratios and numerical sequences

14:55-15:40 Ryoko Tomiyasu 富安亮子 (Kyushu Univ 九州大, Riken iTHEMS 理化学研究所数理創造研究センター)
Aperiodic point generation via the generalized golden-angle method: further improvements, including packing density
黄金角の一般化による非周期的点群生成: その後の改善、パッキング密度など

15:50-16:50 Jonathan Swinton (Deodants Ltd) (Zoom)

Wednesday, October 21, 2026 (2026 年 10 月 21 日 (水))

9:00-9:45 Tomoko Shinohara 篠原知子 (Tokyo Metropolitan College of Indust Tech 東京都立産業技術高専)

9:55-10:40 Takamichi Sushida 須志田隆道 (Univ of Fukuchiyama 福知山公立大)
Rectangular patterns in logarithmic hexagonal spiral tilings

10:50-11:35 Jeong-Yup Lee (Catholic Kwandong Univ) (Zoom)
Minimal module structures for substitution tilings

11:45-12:30 Shigeki Akiyama 秋山茂樹 (Univ of Tsukuba 筑波大)
Intersection problems of Dragon Curves

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