

Mathematics of Quasi-Periodic Order.

As a satellite workshop of "The 11th International Conference on Quasicrystal (ICQ11)", RIMS cooperative research meeting under this title will take place. This meeting is supported jointly by ICQ11 and RIMS.

Date: Date: 21 June - 23 June, 2010
Place: RIMS, 1F, 111, Kyoto University

Organizers:

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(Update 14 June 2010)

Monday 21 June

- 14:00 - 14:30 Nobuhisa Fujita (Tohoku Univ.)
Point substitution processes for generating icosahedral tilings.
- 14:40 - 15:40 Franz Gähler (Univ. Bielefeld)
Topological invariants of aperiodic tilings.
- 15:50 - 16:30 Shelomo I. Ben-Abraham (Ben-Gurion Univ.) and Alexander Quandt (Ernst-Moritz-Arndt Univ.)
Aperiodic structures, order and disorder.
- 16:40 - 17:10 Tohru Ogawa (ISTA)
TBA

Tuesday 22 June

- 9:30 - 10:10 Edmund Harriss (Univ. Leicester)
Action at a distance? The mysteries of aperiodic tilings.
- 10:20 - 11:20 Michael Baake (Univ. Bielefeld) and Uwe Grimm (Open Univ.)
Diffraction theory of deterministic and stochastic structures (part I).
- 11:30 - 12:30 Michael Baake (Univ. Bielefeld) and Uwe Grimm (Open Univ.)
Diffraction theory of deterministic and stochastic structures (part II).
- 14:30 - 15:00 Tomonari Dotera (Kinki Univ.) and Junichi Matsuzawa (Nara Women's Univ.)
Hyperbolic Tiling on the Gyroid Surface in a Polymeric Alloy.
- 15:10 - 15:40 Fumihiko Nakano (Gakushuin Univ.) and Taizo Sadahiro (Kumamoto Pref. Univ.)
On a beta expansion with negative bases.
- 15:50 - 16:20 Hajime Kaneko (Kyoto Univ.)
On the complexity of the binary expansions of algebraic numbers.
- 16:30 - 17:00 Akio Hizume (Figurative artist, Ryukoku Univ.) and Yoshikazu Yamagishi (Ryukoku Univ.)
Stripes on Penrose Tilings.
- 17:10 - 17:40 Hiroko Hayashi (Kochi Univ.) and Kazushi Komatsu (Kochi Univ.)
Some observations on a substitution rule with singular vertex atlases.

Wednesday 23 June

- 9:40 - 10:20 Jeong-Yup Lee (KIAS)
When do substitution Delone sets have the Meyer property ?
- 10:30 - 11:10 Peter Zeiner (Univ. Bielefeld)
Coincidences, Colourings and Similarities.
- 11:20 - 12:20 Shunji Ito (Kanazawa Univ.) and Maki Furukado (Yokohama National Univ.)
The substitutions related to the Rauzy induction of 4-interval exchange transformations and tilings II.