



RIMS 共同研究 (公開型) RIMS Symposia (Open)

モデル理論における独立概念と次元の研究

Model theoretic aspects of the notion of independence and dimension

2022 年 12 月 12 日 (月)~12 月 14 日 (水) (December 12–14, 2022)

場所/Venue: RIMS Room 110

Research Institute for Mathematical Sciences, Kyoto University, Kyoto 606-8317

〒606-8502 京都市左京区北白川追分町 京都大学数理解析研究所

研究代表者: 池田宏一郎 (法政大学) **副代表:** 桔梗宏孝 (神戸大学)

Organisers: Koichiro Ikeda (Hosei, Chair), Hirotaka Kikyo (Kobe)

Program

Monday Afternoon, December 12, 2022

Chair: Akito Tsuboi (Tsukuba)

1:20–1:30 pm Opening Remarks

1:30–2:20 pm Kota Takeuchi (Tsukuba)

On indivisible structures

2:30–3:20 pm Wataru Komine (Tsukuba)

On prime models of definably complete locally o-minimal theories

3:30–4:20 pm Daniel Max Hoffmann (Warsaw)

On Weak Independence Theorem

4:30–4:50 pm Katsumi Tanaka (Okayama)

On near-rings

Tuesday Morning, December 13, 2022

Chair: Kota Takeuchi (Tsukuba)

9:00–9:50 am John Goodrick (Los Andes)

Sets definable in ordered Abelian groups of finite burden and finite dp-rank

10:00–10:20 am Masato Fujita (Japan Coast Guard Academy), and

Tomohiro Kawakami (Wakayama)

Definable proper quotients

(continued to the next page)

- 10:30–11:10 am Ikuo Yoneda (NIT, Tokuyama)
On key lemmas for weak elimination of imaginaries in
Boolean algebras
- 11:20–12:00 am Ikuo Yoneda (NIT, Tokuyama)
Questions on geometric structures with a dense independent
subset
- (Lunch Break)

Tuesday Afternoon, December 13, 2022

- Chair:** Ikuo Yoneda (NIT, Tokuyama)
- 1:40–2:30 pm Masato Fujita (Japan Coast Guard Academy)
Introduction to almost o-minimality
- 2:40–3:30 pm Hyoyoon Lee (Yonsei)
Generic expansions of NATP theories
- 3:40–4:30 pm Akito Tsuboi (Tsukuba)
Colored multipartite random graphs and the order property

Wednesday Morning, December 14, 2022

- Chair:** Masato Fujita (Japan Coast Guard Academy)
- 9:00–9:20 am Kai Ino (Manchester)
Model theory of separably differentially closed fields
- 9:30–10:10 am Hisatomo Maesono (Waseda)
On locally o-minimal structures
- 10:20–11:00 am Hirotaka Kikyo (Kobe)
On Hrushovski’s pseudoplanes with irrational dimensions
- 11:10–11:50 am Keita Yokoyama (Tohoku)
A “model complete” theory of arithmetic and weak
König’s lemma