RIMS, Kyoto University

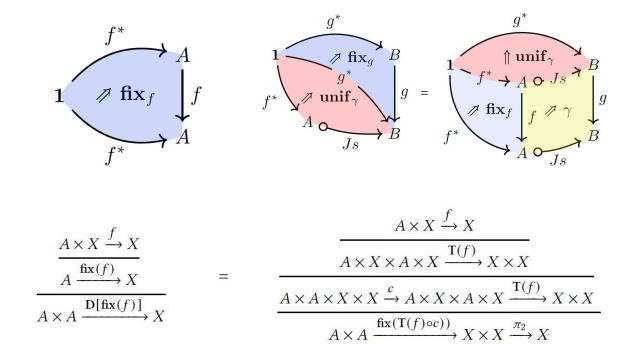
Workshop on Categorical Structures and Computer Science (2024 Edition)

31 October - 01 November 2024

ROOM 478, General Research Building No.2, Kyoto University

DESCRIPTION

This is an informal workshop on category theory and computer science, to be held on the occasion of JS Lemay and Zeinab Galal's visit to Kyoto in October 2024. (The idea and plan are similar to the workshop we had two years ago.) The programme will consist of talks by the participants.



Registration

If you are to participate in / give a talk at the workshop, please register here. The talk slots will be filled on a first-come-first-served basis. (21 October) Now there are only a few slots left, be quick! (26 October) The registration of talks has been closed.

PARTICIPANTS

Yoji Fukihara, Masahito Hasegawa, Kenshin Hirai, Keisuke Hoshino, Ryota Kojima, Yuki Maehara, Hayato Nasu, Kazushige Terui (RIMS), Wataru Tanizaki (Kyoto U), Benedikt Ahrens (TU Delft), Kazuyuki Asada (Tohoku U), Yosuke Fukuda (Kyoto Tachibana U), Zeinab Galal (Bologna U), Naohiko Hoshino (Sojo U), Yuki Imamura (Osaka U), Shin-ya Katsumata, Hiroyuki Miyoshi, Yuta Sahara (Kyoto SU), JS Lemay (Macquarie U), Paige North (Utrecht U), Takeshi Tsukada (Chiba U), Ruben Turkenburg (RU Nijmegen)

TALKS

- <u>JS Lemay</u> (Macquarie U) Traced Cartesian differential categories: combining fixpoints and differentiation
- Zeinab Galal (U Bologna) Towards 2-dimensional trace
- Taichi Uemura (Nagoya U) Higher inductive types in (\infty,1)-categories
- Havato Nasu (RIMS) A formal theory of anticolimits
- Naohiko Hoshino (Sojo Univ) Graded Conway operators are Conway operators
- Yosuke Fukuda (Kyoto Tachibana U) Towards a fibrational semantics of a modal linear lambda-calculus
- Takeshi Tsukada (Chiba U) Weighted generalised species and kits
- Paige North (Utrecht U) Coalgebraic enrichment of inductive types
- Benedikt Ahrens (TU Delft) Comparing semantic frameworks for dependently-sorted algebraic theories
- <u>Shin-ya Katsumata</u> (Kyoto Sangyo U) A categorical framework for program semantics and semantic abstraction
- Ryota Kojima (RIMS) Computational tree logic over neighborhood frames:
 its efficient model checking

PROGRAMME (with slides)

The meeting will start around 2 pm on 31st October and close by 4 pm on 1st November.

Social Dinner

We will have the social dinner at <u>田中でたなか</u>, which was not in the proposed restaurants (sorry about that). We will start at 6:30 pm, and it takes 10 minutes to walk from the workshop venue. Please ask me (Hayato) if you didn't register but want to join in. (I will do my best, but I cannot guarantee I can arrange it for you.)

Organizers

- <u>Masahito Hasegawa</u> (RIMS, Kyoto U)
- <u>Hayato Nasu</u> (RIMS, Kyoto U)