

Monday, 7 September

9:30 – 10:20 Registration

10:20 – 10:30 Opening

10:30 – 12:00 Session on Computability Theory

10:30 Guohua Wu (Nanyang Technological University)
Some progress on Kierstead's conjecture

11:10 (Short Break)

11:20 Stephen Binns (Qatar University)
Randomness and Effective Dimension

12:00 – 14:00 (Lunch Break)

14:00 – 14:50 Plenary Talk

14:00 Alberto Marcone (The University of Udine)
From well-quasi-orders to Noetherian spaces: the reverse mathematics viewpoint

15:00 – 15:50 JSPS-NUS Contributed Session (2 Talks)

15:00 Chi Tat Chong (National University of Singapore)
Partial functions and domination

15:25 Yang Yue (National University of Singapore)
Reverse mathematics and Whitehead groups

15:50 – 16:20 (Coffee Break)

16:20 – 17:10 CTFM Contributed Session (2 Talks)

16:20 Nobu-Yuki Suzuki (Shizuoka University)
Axiom schema of Markov's principle preserves disjunction and existence properties

16:45 Tomoaki Kawano (Tokyo Institute of Technology)
Sequent calculi of quantum logic with strict implication

16:20 – 17:10 JSPS-NUS Free Discussion

Tuesday, 8 September

9:30 – 10:20 JSPS-NUS / CTFM Contributed Session (2 Talks)

9:30 Takeshi Yamazaki (Tohoku University)

Reverse mathematics and equilibria of continuous games

9:55 Yasuhiro Takahashi (NTT Communication Science Laboratories)

On the computational power of constant-depth exact quantum circuits

9:30 – 10:20 CTFM Free Discussion

10:30 – 12:00 Session on Set Theory

10:30 Dilip Raghavan (National University of Singapore)

Cardinal invariants of density

11:10 (Short Break)

11:20 Joel David Hamkins (City University of New York)

Universality and embeddability amongst the models of set theory

12:10 – 14:00 (Lunch Break)

14:00 – 14:50 Plenary Talk

14:00 Nik Weaver (Washington University)

A consistent formal system which verifies its own consistency

15:00 – 15:40 Session on Philosophy

15:00 Kengo Okamoto (Tokyo Metropolitan University)

*Intuitionistic provability, classical validity and situation-dependent propositions –
A consideration based on Gödel's modal embedding*

15:40 – 16:10 (Coffee Break)

16:10 – 17:25 CTFM Contributed Session (3 Talks)

16:10 Emanuele Frittaion (Tohoku University)

Coloring rationals in reverse mathematics

16:35 Florian Pelupessy (Tohoku University)

On the “finitary” infinite Ramsey's theorem and the parametrised Paris-Harrington principle

17:00 Mirjana Ilić (University of Belgrade)

Cut in positive relevant logics without 't'

16:10 – 17:25 JSPS-NUS Free Discussion

Wednesday, 9 September

9:30 – 11:30 JSPS-NUS Discussion Session

11:30 – 13:00 (Lunch Break)

13:00 – 13:50 JSPS-NUS Contributed Session (2 Talks)

13:00 Makoto Fujiwara (JAIST)

Some principles weaker than Markov's principle

13:25 Takayuki Kihara (University of California, Berkeley)

Effective reducibility for smooth and analytic equivalence relations on a cone

14:00 – 15:30 Session on Philosophy

14:00 Hidenori Kurokawa (Kobe University)

On the interpretation of HPC in the Kreisel-Goodman theory of constructions

14:40 (Short Break)

14:50 Walter Dean (University of Warwick)

The completeness theorem, WKL_0 , and the origins of reverse mathematics

16:00 – 17:00 Mini Concert

18:30 – 20:30 Banquet

Thursday, 10 September

9:30 – 11:00 Session on Computability Theory

9:30 Keng Meng Ng (Nanyang Technological University)
Instant structures and categoricity

10:10 (Short Break)

10:20 Liang Yu (Nanjing University)
On the reals which can be random

11:20 – 12:10 Plenary Talk

11:20 Leszek Kołodziejczyk (University of Warsaw)
How unprovable is Rabin's decidability theorem?

12:10 – 14:00 (Lunch Break)

14:00 – 17:20 Special Session on Professor Tanaka's Works

14:00 Introduction by Takeshi Yamazaki (Tohoku University)

14:30 (Short Break)

14:40 Tin Lok Wong (Kurt Godel Research Center)
Models of weak König's lemma

15:20 (Coffee Break)

15:50 Toshio Suzuki (Tokyo Metropolitan University)
Kazuyuki Tanaka's work on AND-OR trees and subsequent development

16:30 (Short Break)

16:40 Keisuke Yoshii (Okinawa National College of Technology)
A survey of determinacy of infinite games in second order arithmetic, dedicating to 60's birthday of Professor Tanaka

Friday, 11 September

9:30 – 10:45 CTFM Contributed Session (3 Talks)

9:30 Ningning Peng (National University of Singapore)
Equilibriums of independent distributions on uniform AND-OR trees

9:55 Kenshi Miyabe (Meiji University)
Reducibilities as refinements of the randomness hierarchy

10:20 Takashi Sato (Tohoku University)
Reverse mathematics, Rees theorem and Artin-Wedderburn theorem

9:30 – 10:45 JSPS-NUS Free Discussion

11:00 – 11:50 Plenary talk

11:00 Sy-David Friedman (Kurt Gödel Research Center)
The complexity of isomorphism

12:00 – 14:00 (Lunch Break)

14:00 – 15:30 Session on Set Theory

14:00 Hiroshi Sakai (Kobe University)
Cofinality of classes of ideals with respect to Katětov and Katětov-Blass orders

14:40 (Short Break)

14:50 Sakaé Fuchino (Kobe University)
A reflection principle as a reverse mathematical fixed point over ZFC

15:30 – 16:00 (Coffee Break)

16:00 – 16:50 JSPS-NUS Contributed Session (2 Talks)

16:00 Toshimichi Usuba (Kobe University)
Set-theoretic geology with large cardinals

16:25 Keita Yokoyama (JAIST)
A simple conservation proof for ADS

16:00 – 16:50 CTFM Free Discussion

16:50 – 17:00 Closing