

## Monday, February 17

**10:00-11:00** Registration

**11:00-11:10** Opening

**11:10-12:00 Plenary talk**

Antonio Montalbán, *Turing determinacy within second order arithmetic*

**12:00-13:30** Lunch break

**13:30-16:10 Invited talks—Special session on reverse mathematics and computability**

(13:30-14:10) Wei Wang, *Combinatorial solutions preserving the arithmetic hierarchy*

(14:20-15:00) Paul Shafer, *Separating the uniformly computably true from the computably true via strong Weihrauch reducibility*

(15:00-15:30) Tea break

(15:30-16:10) Henry Towsner, *(Non-)Reductions in reverse mathematics*

**16:20-17:30 Contributed talks**

(16:20-16:50) Norbert Preining,  
*Proof theory of projective geometry: Orevkov's speed up result in strange surroundings*

(17:00-17:30) Toshio Suzuki and Masahiro Kumabe,  
*Resource-bounded forcing theorem and randomness*

**18:15-** Conference Reception

## Tuesday, February 18

### 9:30-10:40 Contributed talks

	Multi-Purpose Digital Hall	Room W935 Belgium/Japan joint research session
(9:30-10:00)	Kazuto Yoshimura, <i>Interpretations into Weihrauch Lattice</i>	Keita Yokoyama, <i>Finite iterations of infinite and finite Ramsey's theorem</i>
(10:10-10:40)	Tatsuji Kawai, <i>Point-free characterisation of Bishop compact metric spaces</i>	Florian Pelulessy, <i>Connecting the provable with the unprovable</i>

### 11:00-11:50 Plenary talk—Key talk for Singapore/Japan joint research program

Chi Tat Chong, *Applications of nonstandard models in reverse mathematics*

### 11:50-13:30 Lunch break

### 13:30-16:10 Invited talks—Special session on randomness and complexity

- (13:30-14:10) Akinori Kawachi, *Circuit complexity and derandomization*
- (14:20-15:00) Akitoshi Kawamura, *Resource-bounded randomness and differentiability*
- (15:00-15:30) Tea break
- (15:30-16:10) Cameron E. Freer, *Computable invariant measures and algorithmically random structures*

### 16:20-17:30 Contributed talks

- (16:20-16:50) Noah Schweber,  
*Transfinite recursion in higher reverse mathematics*
- (17:00-17:30) Emanuele Frittaion,  
*Reverse mathematics: well-scattered partial orders and Erdős-Rado*

## Wednesday, February 19

### 9:30-10:40 Contributed talks

	Multi-Purpose Digital Hall	Room W935
(9:30-10:00)	Takako Nemoto, <i>The strength of determinacy between <math>\Sigma_1^0</math> and <math>\Delta_2^0</math></i>	Fujiwara/Kohlenbach, <i>Classical provability of uniform versions and intuitionistic provability</i>
(10:10-10:40)	Jeroen Van der Meeren, <i>Gap-sequences</i>	Kojiro Higuchi, <i>Order dimensions of degree structures</i>

### 11:00-11:50 Plenary talk

Jan Reimann, *Effective multifractal analysis*

### 11:50-12:00 Photo session

### 12:00-13:30 Lunch break

### 13:30-16:10 Invited talks

- (13:30-14:10) Guohua Wu, *Isolation: with applications considered*
- (14:20-15:00) Keng Meng Ng, *Comparing sets of natural numbers using randomness and lowness properties*
- (15:00-15:30) Tea break
- (15:30-16:10) Hajime Ishihara, *The combinatory algebras as a monad*

### 16:20-17:30 Contributed talks

	Multi-Purpose Digital Hall	Room W935
(16:20-16:50)	Takashi Sato, <i>Reverse mathematics and Isbell's Zig-Zag Theorem</i>	Weiguang Peng, <i>Blackwell games with a constraint function</i>
(17:00-17:30)	Shota Murakami, <i>Ramseyan factorization theorem in reverse mathematics</i>	Taishi Kurahashi, <i>Rosser-type Henkin sentences and local reflection principles</i>

## Thursday, February 20

### 9:30-10:40 Contributed talks

	Multi-Purpose Digital Hall	Room W935
		Belgium/Japan joint research session
(9:30-10:00)	Kenshi Miyabe, <i>Gap phenomenon for Schnorr randomness</i>	Sam Sanders, <i>Universal properties in higher-order reverse mathematics</i>
(10:10-10:40)	Toru Takisaka, <i>On Gács' quantum algorithmic entropy</i>	Naohi Eguchi, <i>Infinite games in the Cantor space over admissible set theories</i>

### 11:00-11:50 Plenary talk

Takayuki Kihara, *Effective methods in descriptive set theory*

### 11:50-13:30 Lunch break

### 13:30-16:10 Invited talks—Special session on reverse mathematics and computability

(13:30-14:10) Damir D. Dzhalalov, *Weak König's lemma is not all that robust*

(14:20-15:00) Stephen G. Simpson, *Reverse mathematics and the ACC*

### 15:00-15:10 Closing