CCC 2023 – Programme

	Monday, 09-25	Tuesday, 09-26	Wednesday, 09-27	Thursday, 09-28	Friday, 09-29
9:30	**Invited talk** **Johanna Franklin** Metric Spaces In Computable Structure Theory (Chair: Akitoshi Kawamura)	**Invited talk** **Takako Nemoto** Recent results in constructive reverse mathematics (Chair: Bruce Kapron)	**Dieter Spreen** The Compact Hyperspace Monad: a Constructive Approach (Chair: Hideki Tsuiki)	**Invited talk** **Siegfried M. Rump** Theoretical and practical aspects of computer arithmetic (Chair: Olivier Bournez)	**Invited talk** **Linda Westrick** Step functions in the Weihrauch lattice (Chair: Johanne Cohen)
10:00			**Kenshi Miyabe** Solovay reducibility and signed-digit representation (Chair: Hideki Tsuiki)		
10:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00	**Tatsuji Kawai** Predicative presentations of stably locally compact locales (Chair:Holger Thies)	**Laurent Bienvenu, Valentino Delle Rose, Tomasz Steifer** Almost everywhere randomness (Chair: Takayuki Kihara)	**Takayuki Kihara** More on the intuitionistic Borel hierarchy (Chair: Keita Yokoyama)	**Manon Blanc, Olivier Bournez** Characterisations of poly-nomial-time and -space complexity classes over the reals (Chair: Martin Ziegler)	**Riccardo Gozzi, Olivier Bournez** Discontinuous IVPs with unique solutions (Chair: Norbert Müller)
11:30		**Sewon Park, Holger Thies** Verifying iRRAM-like implementation of exact real computation (Chair: Takayuki Kihara)	**Daniele Palombi, Jonathan Sterling** Classifying topoi in synthe-tic guarded domain theory: The universal property of multi-clock guarded recursion (Chair: Keita Yokoyama)	**Norbert Müller** Exact Real Arithmetic and the Efficiency of Taylor Models (Chair: Martin Ziegler)	**Olivier Bournez, Johanne Cohen, Valentin Dardilhac** On the delta-decidability of decision problems for neural network questions (Chair: Norbert Müller)
12:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	
13:30	**Satoshi Nakata** On least realizability notions corresponding to semi-classical axioms in intuitionistic arithmetic (Chair: Sewon Park)	**Pieter Collins, Sewon Park, Holger Thies** Advances in verified set and function calculi in Coq (Chair: Matthew de Brecht)	**open discussion** **and** **informal excursion**	**Tutorial** **Alexander G. Melnikov** Computable Polish groups (Chair: Hajime Ishihara)	
14:00	**Keita Hiroshima** A number that has an elementary contractor and no elementary sum approximation (Chair: Sewon Park)	**Pietro Sabelli** Inductive and Coinductive predicates in the Minimalist Foundation (Chair: Matthew de Brecht)			
14:30	Coffee Break	Coffee Break		Coffee Break	
15:00	**Sam Sanders** On the abyss in Kleene's computability theory (Chair: Toshio Suzuki)	**Margarita Korovina, Oleg Kudinov** Arithmetical complexity for archimedean order positive fields (Chair: Holger Thies)		**Francesco Ciraulo** Kuratowski's problems in constructive Topology (Chair: Satoshi Tojo)	
15:30	**Samuele Maschio** Fibred sets within a predicative and constructive variant of Hyland's effective topos (Chair: Toshio Suzuki))			Open discussion on the future of CCC	
18:00			**dinner**		(Presentation remotely)