



**From omega to Omega  
Workshop on Computability Theory  
(12–16 June 2023)**



**Venue**

IMS Auditorium  
Institute for Mathematical Sciences  
3 Prince George's Park  
Singapore 118402

**ORGANIZING COMMITTEE**

**Co-Chairs**

James W Cummings  
Carnegie Mellon University

Noam Greenberg  
Victoria University of Wellington

Ralf Schindler  
University of Münster

Yue Yang  
National University of Singapore

Liang Yu  
Nanjing University

## Workshop on Computability Theory (12–16 June 2023)

### Monday, 12 June 2023

Time	Title	Speaker
0930–1000	Registration	
1000–1100	Basis Theorems, Zorn's Lemma, $\Sigma_1^1$ and $\Sigma_2^1$ Submodels, $\Pi_1^1$ -CA <sub>0</sub> and $\Pi_2^1$ -CA <sub>0</sub> and Applications in Combinatorics	Richard A. Shore Cornell University, USA
1100–1200	Observations and questions on the structure of the Weihrauch degrees	Arno Pauly Swansea University, UK

### Tuesday, 13 June 2023

Time	Title	Speaker
0945–1000	Registration	
1000–1100	Compression of enumerations and gain	George Barmpalias Chinese Academy of Sciences, China
1100–1200	Splitting property in 3-r.e. degrees	Yong Liu Nanjing Xiaozhuang University, China

### Thursday, 15 June 2023

Time	Title	Speaker
0945–1000	Registration	
1000–1100	Stratifying classes of enumeration degrees	Mariya Soskova University of Wisconsin–Madison, USA
1100–1200	Solovay reducibility and signed-digit representation	Kenshi Miyabe Meiji University, Japan

### Friday, 16 June 2023

Time	Title	Speaker
0945–1000	Registration	
1000–1100	Ordinal analysis of partial combinatory algebras	Paul Shafer University of Leeds, UK

**Friday, 16 June 2023**

<b>Time</b>	<b>Title</b>	<b>Speaker</b>
1100–1200	Learning families of algebraic structures from text	Nikolay Bazhenov Sobolev Institute of Mathematics, Russia
1200–1205	Group Photo	
1205–1400	<b><i>Lunch Reception at IMS</i></b>	

**This schedule is accurate as of 06 June 2023. It is subjected to changes**