

**IMS Graduate Summer School in Logic 2024  
(01 Jul 2024–19 Jul 2024)**



**LECTURERS**

**Su Gao**  
Nankai University, China

**Theodore A Slaman**  
University of California at Berkeley, USA

**W Hugh Woodin**  
Harvard University, USA

**Venue**

IMS Auditorium (1–5 July 2024)  
3 Prince George's Park Singapore 118402

Seminar Room #04-06 (8–12 July 2024)  
Block S17, 10 Lower Kent Ridge Road  
Singapore 119076

LT26 (15–19 July 2024)  
27 Science Drive 1 Singapore 117541

# IMS Graduate Summer School in Logic 2024

## (01 Jul 2024–19 Jul 2024)

### Monday, 01 July 2024

Time	Title	Speaker
Location: <b>IMS Auditorium</b> 3 Prince George's Park, Singapore 118402		
0915–0930	Registration	
0930–1045	Borel Combinatorics	Su Gao Nankai University, China
1045–1115	Coffee Break	
1115–1230	Borel Combinatorics	Su Gao Nankai University, China
1230–1400	Lunch Break	
1500–1600	Q-reducibility and Other Strong Reducibilities	Rod Downey Victoria University of Wellington, New Zealand

### Tuesday, 02 July 2024

Time	Title	Speaker
Location: <b>IMS Auditorium</b> 3 Prince George's Park, Singapore 118402		
0915–0930	Registration	
0930–1045	Borel Combinatorics	Su Gao Nankai University, China
1045–1115	Coffee Break	
1115–1230	Borel Combinatorics	Su Gao Nankai University, China
1230–1400	Lunch Break	
1400–1600	Problem session	

### Wednesday, 03 July 2024

Time	Title	Speaker
Location: <b>IMS Auditorium</b> 3 Prince George's Park, Singapore 118402		
0915–0930	Registration	
0930–1045	Borel Combinatorics	Su Gao Nankai University, China

Wednesday, 03 July 2024		
Time	Title	Speaker
1045–1115	Coffee Break	
1115–1230	Borel Combinatorics	Su Gao Nankai University, China
1230–1400	Lunch Break	
1500–1530	The Galvin-Prikry theorem in the Weihrauch lattice	Gian Marco Osso University of Udine, Italy
1530–1600	Large-scale geometry of Borel graphs of polynomial growth	Jing Yu Georgia Institute of Technology, USA
1600–1630	Higher Baire Spaces Cardinal Characteristics	Berenice Boveland University of Vienna, Austria

Thursday, 04 July 2024		
Time	Title	Speaker
Location: <b>IMS Auditorium</b> 3 Prince George's Park, Singapore 118402		
0915–0930	Registration	
0930–1045	Borel Combinatorics	Su Gao Nankai University, China
1045–1115	Coffee Break	
1115–1230	Borel Combinatorics	Su Gao Nankai University, China
1230–1400	Lunch Break	
1400–1600	Problem session	

Friday, 05 July 2024		
Time	Title	Speaker
Location: <b>IMS Auditorium</b> 3 Prince George's Park, Singapore 118402		
0915–0930	Registration	
0930–1045	Borel Combinatorics	Su Gao Nankai University, China
1045–1115	Group Photo & Coffee Break	
1115–1230	Borel Combinatorics	Su Gao Nankai University, China
1230–1400	<b>Lunch Reception at IMS</b>	
1500–1530	Cardinalities of the set of functions on a set	Natthajak Kamkru Chulalongkorn University, Thailand

Friday, 05 July 2024		
Time	Title	Speaker
1530–1600	Forcing and Category Theory	Michel Smykalla Universidade de São Paulo, Brazil
1600–1630	General Topological Frames for Polymodal Provability Logic	Yunsong Wang Peking University, China

Monday, 08 July 2024		
Time	Title	Speaker
Location: <b>Seminar Room #04-06</b> Block S17, 10 Lower Kent Ridge Road, Singapore 119076		
0915–0930	Registration	
0930–1045	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1045–1115	Coffee Break	
1115–1230	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA

Tuesday, 09 July 2024		
Time	Title	Speaker
Location: <b>Seminar Room #04-06</b> Block S17, 10 Lower Kent Ridge Road, Singapore 119076		
0915–0930	Registration	
0930–1045	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1045–1115	Coffee Break	
1115–1230	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1230–1400	<i>Lunch Break</i>	
1500–1530	Determinacy in high-order arithmetic	Thibaut Kouptchinsky Technische Universität Wien, Austria
1530–1630	Some results in computable topology	Djamel Eddine Amir Université de Lorraine, France

Wednesday, 10 July 2024		
Time	Title	Speaker
Location: <b>Seminar Room #04-06</b> Block S17, 10 Lower Kent Ridge Road, Singapore 119076		
0915–0930	Registration	
0930–1045	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1045–1115	Group Photo & Coffee Break	
1115–1230	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1230–1400	<i>Lunch Break</i>	
1400–1600	Problem session	

Thursday, 11 July 2024		
Time	Title	Speaker
Location: <b>Seminar Room #04-06</b> Block S17, 10 Lower Kent Ridge Road, Singapore 119076		
0915–0930	Registration	
0930–1045	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1045–1115	Group Photo & Coffee Break	
1115–1230	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1230–1400	<i>Lunch Break</i>	
1500–1530	Dimensionality and randomness	Xiaoyan Zhang Institute of Software, CAS, China
1530–1600	The relationship between the Tree Theorem and induction axioms	Yuto Takeda Tohoku University, Japan
1600–1630	Spectra of structures	Karthik Ravishankar University of Wisconsin-Madison, USA
1630–1700	Measurability of Subgroups of the Reals	Xuanheng Zhao Nanjing University, China

Friday, 12 July 2024		
Time	Title	Speaker
Location: <b>Seminar Room #04-06</b> Block S17, 10 Lower Kent Ridge Road, Singapore 119076		
0915–0930	Registration	
0930–1045	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1045–1115	Coffee Break	
1115–1230	Extending Borel’s Conjecture from Measure to Dimension–Singapore 2024	Theodore A Slaman University of California at Berkeley, USA
1230–1400	<i>Lunch Break</i>	
1400–1600	Problem session	
Monday–Friday, 15–19 July 2024		
Time	Title	Speaker
Location: <b>LT26</b> 27 Science Drive 1 Singapore 117541		
0915–0930	Registration	
0930–1045	Universally Baire sets and Strongly Compact Cardinals	W Hugh Woodin Harvard University, USA
1045–1115	Coffee Break	
1115–1230	Universally Baire sets and Strongly Compact Cardinals	W Hugh Woodin Harvard University, USA
1230–1400	<i>Lunch Break</i>	
1400–1600	Problem session	

**This schedule is accurate as of 12 Jul 2024. It is subjected to changes**