

TWELFTH ASIAN LOGIC CONFERENCE

CO-SPONSORED BY THE ASSOCIATION FOR SYMBOLIC LOGIC

**Victoria University of Wellington, Wellington, New Zealand**  
**December 15–20, 2011**  
**with Student Day on December 14, 2011**

The Program Committee consisted of Toshiyasu Arai, Rod Downey (Chair), Qi Feng, Sergei S. Goncharov, Byunghan Kim, Greg Restall, and Yang Yue. The Local Organizing Committee consisted of Rod Downey (Chair), Noam Greenberg, and Ginny Whatarau.

There were eight invited talks:

Mic Detlefsen (Notre Dame), *Cantorian freedom*.

Isaac Goldbring (UCLA), *Definability in metric structures*.

Noam Greenberg (Victoria University Wellington), *Strong jump-traceability*.

Wu Guohua (NTU, Singapore), *Variants of constructions of noncuppable degrees*.

Hiroakira Ono (JAIST), *Algebraic perspective on nonclassical logics*.

Grigor Sargsyan (Rutgers University), *The Solovay hierarchy*.

Simon Thomas (Rutgers University), *The descriptive set theory of unitary group representations*.

Akito Tsuboi (University of Tsukuba), *Indiscernible trees*.

Four-hour tutorials were given by Martin Grohe (Humboldt University Berlin) on *Logical aspects of graphs* and by Zlil Sela (Hebrew University of Jerusalem) on *Logical aspects of groups*. Grohe and Sela also gave two-hour student tutorials on the Student Day; due to travel difficulties Yijia Chen spoke in place of Grohe.

Special sessions on the following topics were held (with organizers in parentheses): Algorithmic randomness (Rod Downey and Andre Nies), Computability and algebraic structures (Rod Downey), Logical aspects of graphs and matroids (Geoff Whittle), Modal logic (Rob Goldblatt and Edwin Mares), and Set theory (Qi Feng).

There were over 110 attendees including 26 students.

Abstracts of the invited talks and contributed talks given (in person or by title) by members of the Association for Symbolic Logic follow.

For the Organizing Committee  
ROD DOWNEY

**Abstracts of invited tutorials**

- YIJIA CHEN, *Basic descriptive complexity*.  
Department of Computer Science and Engineering, Shanghai Jiao Tong University,  
Dongchuan Road, No. 800, 200240 Shanghai, China.  
*E-mail*: yijia.chen@cs.sjtu.edu.cn.