



Department of Mathematics  
The Chinese University of Hong Kong

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數學系  
香港中文大學

Phone: (852) 3943 7988 • Fax: (852) 2603 5154 • Email: [dept@math.cuhk.edu.hk](mailto:dept@math.cuhk.edu.hk) (Math. Dept.)  
Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

# Seminar

## *Goedel's Incompleteness Theorems and more*

*Dr. Tin Lok WONG*  
*University of Vienna, Austria*

### Abstract

Goedel's First Incompleteness Theorem is often paraphrased as: no consistent axiomatic system can establish all true statements. On the one hand, this imposes serious restrictions on what mathematics can achieve when formalized as an axiomatic system. On the other hand, it is the starting point of many research areas in logic.

The emphasis of this talk is on the mathematical essence of Goedel's Incompleteness Theorems. If time permits, then I will also talk about some active research directions in mathematical logic that are influenced by the Incompleteness Theorems. I will not assume any prior knowledge in mathematical logic.

**Date :** September 6, 2016 (Tuesday)  
**Time :** 3:00pm – 4:00pm  
**Venue :** Room 222, Lady Shaw Building,  
The Chinese University of Hong Kong

*All are Welcome*