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# Seminar

## *Special Flow, Weak Mixing and Complexity*

*Professor Wen Huang*  
*University of Science and Technology of China*

### Abstract

We focus on the complexity of a special flow built over an irrational rotation of the unit circle and under a roof function on the unit circle. We construct a weak mixing minimal special flow with bounded topological complexity. We also prove that if the roof function is  $C$ -infinity, then the special flow has sub-polynomial topological complexity and the time one map meets the condition of Sarnak's conjecture.

Date: 20 August 2018 (Monday)  
Time: 3:30pm – 4:30pm  
Venue: Room 222, Lady Shaw Building,  
The Chinese University of Hong Kong, Shatin

*All are Welcome*