

## ***TRANSFER OF HIGHEST WEIGHT MODULES AND SMALL UNIPOTENT REPRESENTATIONS***

**Speaker: Daniel Kayue Wong**  
**Chinese University of Hong Kong(Shenzhen)**

**Time: Sun, April. 11th, 14:00-15:00**

**Venue: Room 102, Shanghai Center for Mathematical Sciences**

**Abstract:** Let  $G$  be a real reductive Lie group. It is conjectured that the 'building blocks' of the unitary dual of  $G$  are given by unipotent representations. In this talk, we will give some constructions of unipotent representations with small Gelfand-Kirillov dimensions. More precisely, we focus a technique called 'transfer' defined by Wallach, which allows one to obtain new unipotent representations from some old ones. As a consequence, we give an account for all small unipotent representations for all real forms of  $E_6$  and  $E_7$ .

This is a joint work with Hai-an He and Jing-song Huang.