



**The Hong Kong University of Science and Technology**

**Department of Mathematics**

**Seminar on Lie Theory**

**Some results on the Schwartz space of  $(\Gamma \backslash G)$**

*by*

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**Abstract**

Let  $G$  be a connected semisimple Lie group with finite center. Let  $\Gamma \subset G$  be a discrete subgroup. We study closed admissible irreducible subrepresentations of the space of distributions  $S(\Gamma \backslash G)'$  defined by Casselman, and their relations to automorphic forms on  $\Gamma \backslash G$  when  $\Gamma$  is a congruence subgroup. If time permits we will discuss analogous results for adelic groups.

***Date:***                      ***Thursday, 18 January 2018***

***Time:***                      ***2:00p.m. – 3:00p.m.***

***Venue:***                      ***Room 4504, Academic Building  
(near Lifts 25 & 26), HKUST***

***All are welcome!***