

CASSELMAN'S COMPARISON THEOREM

Speaker: Jun Yu
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Time: Tue, Dec. 7, 15:00-16:00

Venue: Tencent Meeting: 370 847 821, Password: 123456

Abstract: Harish-Chandra's theory of (\mathfrak{g}, K) modules sets up a framework which is very convenient for studying algebraic properties of representations of real reductive Lie groups. However, for application we need to study globalizations of (\mathfrak{g}, K) modules. Then, it arises a natural questions that if homological properties of (\mathfrak{g}, K) modules and their globalizations are consistent. In this talk we report on a relatively elementary proof of the Casselman comparison theorem which says that the n -homologies of an admissible finitely generated (\mathfrak{g}, K) module and that of its Casselman-Wallach globalization are the same. This is a joint work with Ning Li (BICMR) and Gang Liu (U. Lorraine).