报告人： 白占强 博士

单位：武汉大学

时间：6月23日（周 五） 10:00--11:00

邀请人： 罗栗

地点：闵行数学楼401报告厅

题目： Associated varieties and Gelfand-Kirillov Dimensions of Highest Weight (g, K)-Modules.

摘要:  In this talk, we will study the associated varieties and Gelfand-Kirillov dimensions of highest weight (g, K)-modules for noncompact simple Lie groups. In the first part (joint work with Markus Hunziker), we will give a uniform formula to provide the  AV and GKdim for all  unitary highest weight (g，K)-modules. In the second part (joint work with Xun Xie), by using Lusztig's a-function we will give a combinatoric algorithm for the GKdim of all highest weight modules of simple Lie algebras of type A. In particular, from this algorithm we can easily determine the AV of  highest weight (g, K)-modules for the Lie group SU(p,q). Finally, we will give a formula which can determine the AV of highest weight (g, K)-modules for all types. This part is a joint work with Markus Hunziker and Roger Zierau.

个人简介：白占强博士毕业于香港科技大学，目前任教于武汉大学。研究方向为数学物理、李理论。