Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

For Favour of Posting

Phone: (852) 3943 7988-9 • Fax: (852) 2603 5154 • Email: dept@math.cuhk.edu.hk
Rm. 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Seminar

Motivic Chern Classes of Schubert Cells and Applications

by

Dr. Changjian Su
University of Toronto

Abstract:

The motivic Chern class in K-theory is a natural generalization of the MacPherson class in homology. In this talk, we will talk about several applications of the motivic Chern classes of the Schubert cells. These classes can be used to give a smoothness criterion for the Schubert varieties, which is used to prove several conjectures of Bump-Nakasuji-Naruse about representations of p-adic dual groups and also conjectures of Lenart-Zainoulline-Zhong about Schubert classes in hyperbolic cohomology of flag varieties. The Euler characteristics of these classes are also related to the Iwahori-Whittaker functions of the dual groups. Based on several joint works with P. Aluffi, C. Lenart, L. Mihalcea, J. Schürmann, K. Zainoulline, and C. Zhong.

Date : December 16, 2020 (Wednesday)
Time : 9:00am – 10:00am (Hong Kong SAR)
Zoom link :
https://cuhk.zoom.us/j/97838822137?pwd=ZTVvSC9abmNjR3RCcS9FTzJNTVhXdz09
Meeting ID : 978 3882 2137
Passcode : sesame

All are Welcome