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Representation and Number Theory Seminar

Modularity for W -algebras and affine Springer fibers

by

Professor Peng Shan
Tsinghua University

Abstract

We will explain a bijection between admissible representations of affine Kac-Moody algebras and fixed points in affine Springer fibers. We will also explain how to match the modular group action on the characters with the one defined by Cherednik in terms of double affine Hecke algebras, and extensions of these relations to representations of W -algebras. This is based on joint work with Dan Xie and Wenbin Yan.

Date : 14 March 2023 (Tuesday)
Time : 9:00am – 10:00am (Hong Kong Time)
ZOOM Link :
<https://cuhk.zoom.us/j/98406698458?pwd=ejBFQXBtDU2bTNFZnZhaUINMHJUdz09>
Meeting ID: 984 0669 8458
Passcode : sesame

All are Welcome