

Generalizations of Kloosterman sheaves

Yun Zhiwei (Stanford University)

Abstract : We will construct a large class of local systems on \mathbb{P}^1 minus two points, which are tame at one puncture and wild at the other. The monodromy of these local systems lies in simple Lie groups of all types. The construction is motivated by recent work of Gross-Reeder-Yu, which reveals interesting relationship between representations of p -adic groups and Vinberg's invariant theory.