## Oklahoma State University

## Lie Groups Seminar

Title

Klingen  $p^2$  vectors for GSp(4)

Speaker:Shaoyun Yi, University of OklahomaDate:Feb 13, 2019Time:4:00 PMRoom:MSCS 509

Abstract: In 2007, Roberts and Schmidt had a satisfactory local new- and oldform theory for GSp(4) with trivial central character, in which they considered the vectors fixed by the paramodular groups  $K(p^n)$ . In this talk, we consider the vectors fixed by the Klingen subgroup of level  $p^2$ . We determine the dimensions of the spaces of these invariant vectors for all irreducible, admissible representations of GSp(4) over a *p*-adic field.