

**Meeting:** 1002, Pittsburgh, Pennsylvania, SS 14A, Special Session on Modularity of Galois Representations and Serre's Conjecture

1002-11-39            **Darrin M Doud\*** (doud@math.byu.edu), Department of Mathematics, 292 TMCB, Brigham Young University, Provo, UT 84601. *Three-dimensional Galois representations and a generalization of Serre's conjecture.* Preliminary report.

We will discuss recent research concerning a generalization of Serre's conjecture to Galois representations of dimension higher than two—in particular we will concentrate on three-dimensional representations and their relations with certain arithmetic cohomology groups. (Received July 19, 2004)