

Meeting: 1004, Bowling Green, Kentucky, SS 9A, Special Session on L-Functions

1004-11-60 **Brooks Roberts*** (brooks@uidaho.edu), Department of Mathematics, PO Box 441103, University of Idaho, Moscow, ID 83844-1103, and **Ralf Schmidt** (rschmidt@math.ou.edu), University of Oklahoma, Department of Mathematics, 601 Elm Street, PHSC 423, Norman, OK 73019. *Global newforms for $GSp(4)$* . Preliminary report.

This talk is about joint work with Ralf Schmidt, in conjunction with his talk on local newforms for $GSp(4)$. In this talk we will discuss a conjecture which describes a theory of Siegel modular newforms of degree two with respect to the paramodular group. Using our local theory, we will indicate how this conjecture follows from a corresponding conjecture in the language of automorphic representations. Finally, we will discuss how the corresponding conjecture is implied by the conjectural detailed structure of the discrete spectrum of $GSp(4)$. (Received January 14, 2005)