

1037-22-285

**Steven Thomas Spallone\*** ([sspallon@math.purdue.edu](mailto:sspallon@math.purdue.edu)), 150 N University St, Department of Mathematics, Purdue University, West Lafayette, IN 47907. *Stable Discrete Series Characters at Singular Elements.*

Characters of discrete series representations diverge at the value  $g=1$ . However, Arthur multiplies stable discrete series characters by a suitable discriminant factor to obtain an interesting expression, his Phi-function, which does extend to 1. These functions figure prominently in his trace formula for Hecke operators on automorphic forms. In this talk we present a simple explicit expression for Arthur's Phi-function at 1. (Received February 04, 2008)