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73072. *Stable Trace Formulas and Discrete Series Multiplicities*. Preliminary report.

In Arthur's 1989 paper " L^2 -Lefschetz numbers of Hecke operators", he gives an expression for a stable sum of multiplicities of discrete series representations in terms of orbital integrals and character values. We present a stabilized version of this, due to Kottwitz, which seems to give the individual multiplicities. We focus on GSp_4 . (Received March 28, 2010)