

## Computing central values of twisted L-functions of higher degree

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For a classical modular form  $f$  and a quadratic character  $\chi_D$ , one can compute the central value  $L(\frac{1}{2}, f, \chi_D)$  using Waldspurger's formula. This has been done on a very large scale by a number of people and has been used to verify the vanishing of these central values as predicted by Random Matrix Theory. In this talk we report on recent related work (joint with Gonzalo Tornar\'ia and John Voight) for the L-functions associated to Hilbert modular forms and ongoing analogous work (joint with Gonzalo Tornar\'ia) for the L-functions associated to Siegel modular forms.