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Andrew Knightly*, Department of Mathematics & Statistics, 5752 Neville Hall, Rm 333, University of Maine, Orono, ME 04469, and **John Jackson**, Department of Mathematics & Statistics, University of Maine. *Average values of twisted L-functions.*

We use the relative trace formula to compute the sum (over cusp forms of a given level and weight) of modular L-functions, twisted by a fixed primitive Dirichlet character, inside the critical strip. When the level or the weight is sufficiently large, the sum is nonzero. (Received December 09, 2011)