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L-functions with n -th order twists

I will describe some recent work (joint with Valentin Blomer and Benoit Louvel) generalizing Heath-Brown's quadratic large sieve to higher order characters. I will also discuss several applications to the study of Hecke L-functions, as well as to a subconvexity bound for a certain double Dirichlet series built out of n -th order twists of a fixed Hecke L-function.