1077-11-858   **Bob Hough*** (`rdhough@math.stanford.edu`), 450 Serra Mall, Stanford, CA 94305. *Resonance method for large character sums.*

We discuss adaptation of Soundararajan's 'resonance method' to the study of large character sums, considering

$$\Delta(N, q) = \sup_{\chi \neq \chi_0 \bmod q} |\sum_{n \leq N} \chi(n)|, \qquad (q \text{ large}).$$

The method streamlines and optimizes previous approaches, producing the best known lower bounds for this problem in most ranges of N. (Received September 13, 2011)