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Caroline L. Turnage-Butterbaugh (cturnagebutterbaugh@gmail.com), Mathematics Dept. 2750, PO Box 6050, North Dakota State University, Fargo, ND 58102. Large gaps between zeros of the Dedekind zeta-function of a quadratic number field. Preliminary report.

Let K be a quadratic number field with discriminant d. The Dedekind zeta-function attached to K can be expressed by  $\zeta_K(s) = \zeta(s)L(s,\chi_d)$  for  $s \neq 1$ , where  $\zeta(s)$  is the Riemann zeta-function, the character  $\chi_d$  is the Kronecker symbol associated to d, and  $L(s,\chi_d)$  is the corresponding Dirichlet L-function. Using amplifiers and assuming the generalized Riemann hypothesis for  $\zeta_K(s)$ , we improve the results on large gaps between the nontrivial zeros of  $\zeta_K(s)$ . This is joint work with Hung Bui and Winston Heap. (Received September 16, 2014)