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)